

OhioEPA
State of Ohio Environmental Protection Agency

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Columbus, OH 43216-1049

July 5, 2000

Ms. Jeanne Griffin
USEPA, Office of Superfund
Response Section 3, SE-4J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590



RE: Integrated Assessment (IA) Report
Sam Winer Motors, OHD987054376

932905

Dear Ms. Griffin:

Please find enclosed for your review, the Sam Winer Motors Integrated Assessment (IA) Report, along with the required IA Transmittal Memorandum. The photographic documentation log, GIS maps, and the comprehensive data tables are all contained as appendices. Completion of the Sam Winer Motors Integrated Assessment (IA) is considered to be partial fulfillment of our 2000 cooperative agreement.

Please direct any comments or questions to me at 614-836-8754.

Sincerely,



Bill Batin
Site Investigator
Division of Emergency & Remedial Response

Enclosures

cc: Jeff Wander, SIFU, w/o attach.
Laura Fay, IFSS, w/o attach.
Vicki Deppisch NEDO-DERR w/ attach.

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OHIO EPA NEDO

Bob Taft, Governor
Maureen O'Connor, Lieutenant Governor
Christopher Jones, Director

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June 17, 2000

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Columbus, OH 43216-1049

Mr. Jason El-Zein
Emergency Response Branch, Chief
U.S. EPA, Room 216
9311 Groh Road
Grosse Ile, MI 48138-1697

Re: Sam Winer Motors, Springfield Township, Summit County, Ohio

Dear Mr. El-Zein,

Ohio EPA requests U.S. EPA's assistance to evaluate a possible time-critical removal action on the Sam Winer property in Springfield Township, located southeast of Akron,

On July 6, 1999, Ohio EPA conducted an Integrated Assessment (report attached) at the Sam Winer site. The focus of this removal request involves a former gas station area where two degreasing solvent pits allegedly existed. The pits' dimensions encompass a relatively small area and are estimated to be approximately 5'x5'x8'. Samples collected from what is believed to be within the confines of the pit walls showed significantly elevated levels of solvents in the groundwater and soil. Refusal was encountered at 8 feet by the Geoprobe™, which is believed to be the bottom of these pits. Soil screened just 15 feet outside of the alleged pit area contained significantly less concentrations of solvents. The former gas station is an unrestricted area, approximately 50 feet south of E. Waterloo Road. It is currently being used to park large trucks on a temporary basis.

Among the highest solvent concentrations in the ground water were found in sample SW-GPW-01. Vinyl chloride was detected at 1200 ppb, methylene chloride at 120,000 ppb, 1,1,1 trichloroethane at 400,000 ppb, trichloroethene at 210,000 ppb, toluene at 580,000 ppb, xylene at 300,000 ppb, ethylbenzene at 65,000 ppb, and benzene at 2400 ppb.

Soil results indicate high levels of volatiles and semi-volatiles present in sample SW-GSO-01. 1,1,1, trichloroethane was detected at 71,000 parts per billion (ppb), toluene at 160,000 ppb, ethylbenzene at 24,000 ppb, and xylene at 110,000 ppb. Elevated semi-volatiles detected include 1,2 dichlorobenzene at 170,000 ppb, n-nitrosodiphenylamine at 200,000 ppb, pyrene at 6200 ppb, and bis-(2-ethylhexyl)phthalate at 300,000 ppb.

Residential wells are located less than 100 feet away, however, no VOC's were detected in any of the surrounding wells at the time of sampling. The nearest public water supply is a trailer park, 2400 feet to the west.

Please have the assigned OSC contact Bill Batin of the Site Investigation Field Unit at 614-836-8754 to set up a date and time to conduct the site visit. Vicki Deppisch is the district contact from our Twinsburg Office. Vicki can be reached at 330-963-1207.

Please let me know what you think and feel free to call me at 614-836-8752 with any questions.

Sincerely,



Kevin C. Clouse, Manager
Emergency Response & Special Investigations

cc: Cindy Hafner, Chief, DERR
Bill Batin/Scott Shane, ERSIS/CO
Vicki Deppisch/Rod Beals, DERR/NEDO

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TRANSMITTAL MEMORANDUM

Date: July 5, 2000

To: Jeanne Griffin, Site Assessment Manager, USEPA Region 5

From: Bill Batin, Site Investigator, Ohio EPA-DERR

Subject: Integrated Assessment (IA) Memorandum

CERCLIS Site Name: Sam Winer Motors
City/County: Springfield Township/Summit County
State: Ohio
U.S. EPA ID No: OHD987054376

THIS DOCUMENT IS CONFIDENTIAL. Due to the pre-decisional nature of this memorandum, this memorandum and its attachments are not to be released.

The Sam Winer Motors Integrated Assessment (IA) and its attachments, accompanies this transmittal memorandum. Based on the information gathered during the IA, and from other available information, the following suggestions are presented.

This site has been evaluated for the need for immediate or non-time critical removal as a result of a substantial threat to both human health and the environment.

X The site presents a threat that requires a non-time critical removal action.

 The site presents a threat that requires immediate removal action.

Based on the findings of this report, the following decision options are available:

 "H" - High priority for further remedial actions.

 "L" - Low priority based on State action currently underway.

X "N" - No Further Federal Remedial Action Planned.

 "G" - Go On (i.e., formation of Site Assessment Team)

Bob Taft, Governor
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Christopher Jones, Director

July 5, 2000

Page 2

If designated "H", the following activities would be required during an ESI in order to establish a sufficient data base to successfully list the facility on the National Priorities List:

- | | |
|--|--------------------------------------|
| <input type="checkbox"/> Installation of Monitoring Wells | <input type="checkbox"/> Geophysics |
| <input type="checkbox"/> Air Sampling | <input type="checkbox"/> Area Survey |
| <input type="checkbox"/> Surface Water Sampling | <input type="checkbox"/> Other: |
| <input type="checkbox"/> Waste Characterization | |
| <input type="checkbox"/> Extensive Sampling of Residential Wells & Municipal Wells | |
| <input type="checkbox"/> Soil Sampling | |
-

Ohio EPA's Additional Comments:

Currently, the 46-acre Sam Winer Motors site is being used as a salvage yard for used military vehicles, trailers and equipment. Two former UST areas were investigated and the soil was found to be contaminated with organic compounds. Geoprobe groundwater samples collected from the former gas station area indicate elevated organic contamination of groundwater. This contamination does not appear in nearby wells approximately 100 feet away, but the potential does exist. The former gas station area is located on E. Waterloo Road and is completely accessible to the public.

Other than the two former UST areas, no other contamination was found at the site during the July, 1999 investigation. All residential wells sampled in the vicinity showed no contaminants above the method detection limits.

Soil Exposure: Geoprobe soil cores were collected at the former gas station area and adjacent to the annex building . UST's were buried next to the annex building but have been removed. Removal of the UST's has not been confirmed at the former gas station. Samples collected from soil cores at both locations indicate organic contamination in the soil at depths greater than 3 feet. A strong petroleum odor was associated with soil from both locations.

Surface Water: Sediment and surface water samples were not collected on or off-site because there was no evidence of a release into a surface water body. Intermittent ditches surround the site and drain the runoff from the Sam Winer property during a rain event. There was no evidence of contaminated soil at the surface that would contribute to contaminated overland surface water flow.

Ground Water: Twelve residential wells were sampled in the Sam Winer Motors vicinity during the July, 1999 investigation, including the on-site well. Analytical results from the residential well samples indicate no contaminants above method detection limits in any of the wells. However a Geoprobe™ ground water sample collected at the former gas station area on East Waterloo Road contained high levels of organics. This sample was collected near the alleged UST area and approximately 8 feet below ground surface. Residences utilizing the local ground water are approximately 100 feet to the north but unaffected.

Air: The air pathway was not evaluated, and no samples were collected for analysis. Although Ohio EPA personnel did not initiate a formal air sampling program at the Sam Winer Motors site, portable air monitoring was conducted.

INTEGRATED ASSESSMENT (IA)

Sam Winer Motors

**Summit County
U.S. EPA ID: OHD987054376**

Prepared by:

**OHIO ENVIRONMENTAL PROTECTION AGENCY
Division of Emergency & Remedial Response**

7/3/00

OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA)
DIVISION OF EMERGENCY & REMEDIAL RESPONSE (DERR)

INTEGRATED ASSESSMENT APPROVAL FORM

Sam Winer Motors

Prepared by:

Bill Batin
Bill Batin, Environmental Specialist
Ohio EPA, DERR-SIFU

7/9/00
Date

Reviewed by:

Vicki Deppisch
Vicki Deppisch, DERR, NEDO
Ohio EPA, DERR-SIFU

7/5/00
Date

Approved by:

Jeanne Griffin
Jeanne Griffin, Site Assessment Manager
U.S. EPA, Region 5

7/13/00
Date

Upon review and approval of this IA, please sign and fax this sheet to:
(614) 836-8795, Attention: Bill Batin

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Figure 3: Soil Survey of Springfield Township

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Figure 6: Sam Winer Site Location Map

Figure 7: Sam Winer Site Features Map

Figure 8: Soil and Geoprobe™ Groundwater Sample Location Map

GIS Information Appendix E

1.0 EXECUTIVE SUMMARY

Ohio Environmental Protection Agency (Ohio EPA) personnel conducted an Integrated Assessment (IA) at the Sam Winer Motors site, Summit county, Ohio on July 6, 1999. This Integrated Assessment was performed under the United States Environmental Protection Agency (U.S. EPA) site investigation protocol. The purpose of this IA was to determine if historical activities at the Sam Winer Motors site released contaminants into the environment, specifically to the groundwater.

2.0 INTRODUCTION

The Ohio Environmental Protection Agency (Ohio EPA) Division of Emergency and Remedial Response (DERR) through a Cooperative Agreement with the U.S. EPA Region V, conducted an IA of the Sam Winer Motors site, U.S. EPA ID# OHD987054376. This report was prepared to address potential effects releases from the site may have to the surrounding areas.

3.0 SITE BACKGROUND

3.1 Site Description and History

The Sam Winer Motors site consists of various parcels of land in close proximity to each other totaling approximately 45 acres (figure 6). The main building of Sam Winer Motors and one of the parcels, is located at 3417 E. Waterloo Road in Summit County southeast of Akron, Ohio. The site is bordered to the north by U.S. 224, to the east by Portage Line Road (State Route 532) and to the south by Sanitarium Road. Waterloo Road runs east-west and divides the site approximately in half.

Aerial photographs confirm that the site has been operated as a salvage yard for retired military equipment, vehicles and parts as far back as 1952. The owners have expanded the site since then by acquiring adjacent land parcels. A few buildings are present on site and are used for storage of vehicle parts. One former building operated as a gas station and the UST's are believed to have been removed from this area. Former UST's that existed behind the annex building have been removed. This area is currently under regulatory control by the State Fire Marshall's Office. Soil samples were collected from both of these UST areas (figure 8).

A recent site visit documented that most of the areas have been covered with gravel, crushed brick and stone, with no observable staining typical of a vehicle salvage yard. Vegetation is sparse on most of the property; however, high grass covers a large portion of the unused areas.

3.2 Previous Site Work

The site was brought to the attention of the Ohio EPA by a citizen's complaint in 1993. The complainant alleged illegal storage of waste solvents in tankers located in one of the vehicle storage facilities. The investigation showed no evidence of solvent storage in any of the military tankers at the site. The Ohio EPA determined the complaint to be unfounded with no further action to be taken.

A ground water investigation was jointly conducted in a surrounding area to the east of the Sam Winer site on Bey and Ellen Roads in 1993 by Ohio EPA, Ohio Department of Health (ODH), and Summit County Health Department. This investigation was in response to a citizen's complaint. Analytical results of the water indicated no federal Drinking Water Standards were exceeded.

The U.S.EPA became involved in the Sam Winer site in 1995 in response to a citizen's complaint. The Ecology & Environment, Inc. (E & E) Technical Assistance team (TAT), a U.S.EPA subcontractor, investigated the site. According to a memo by E & E dated December 31, 1995, the following is stated: "The Ecology & Environment, Inc. (E & E) Technical Assistance Team (TAT) was tasked to complete site assessment activities at the above mentioned site. Under this Technical Direction Document (TDD), the TAT researched county records and obtained aerial photography of the property for a 30-year period. After completing this record review, U.S. EPA never scheduled any further activities. Therefore, this TDD is being closed. This memorandum will serve as a final deliverable for all work completed under this TDD."

In March of 1996 an Aerial Photograph Interpretation Report was produced for the site by USEPA's Characterization Research Division in Las Vegas, Nevada. Using aerial photographs from 1952 to 1990, this report speculated on various land features of the Sam Winer site. During the 1999 Integrated Assessment investigation, Ohio EPA was unable to field verify many of the conclusions drawn from the Interpretation Report.

3.3 Site Geology & Hydrology

A. Regional Geology

Summit County lies within the glaciated Allegheny Plateau and is characterized by a series of glacial till covered plateaus and intervening outwash-filled valleys. Plateau elevations range between 1,100 and 1,200 feet above mean sea level (amsl), while valley outwash lies at elevations between 950 and 1,000 feet amsl (United States Department of Agriculture, 1974).

The area is composed of the Wisconsinan-aged Hiram, Mogadore, and Kent Tills. The Hiram and Kent Tills occur mainly in the northern and southeastern portions of the county, respectively, while the Mogadore Till can be found throughout the entire area (White, 1982). According to Stout, Ver Steeg, and Lamb (1943), the average thickness of glacial drift throughout Summit County is variable, but on the average not more than 25 feet. Associated with these tills are

extensive areas of valley trains and kames composed mainly of sand and gravel. Mineral resources associated with these glacial deposits are made up chiefly of the large volumes of sand and gravel in the kames-moraines and valley trains of southern Summit County (United States Department of Agriculture, 1974).

A study of the bedrock topography in Summit County indicates that horizontal beds slightly dip to the east and south. The rocks exposed at the bedrock surface throughout the county range in age from the Pennsylvanian (Pottsville Formation), Mississippian (Cuyahoga Group) through the Devonian (Ohio and Chagrin shales, and Berea sandstone). The Pottsville Formation in the southeastern portion of Summit County is composed of alternating shale, clay, sandstone, limestone, and clay layers (Smith and White, 1953). The Sharon Conglomerate, the lowermost member of the Pottsville Formation, rests unconformably on the Mississippian-aged shale of the Cuyahoga Group. Figure 2 illustrates the depth to bedrock for the site and surrounding property (Smith, 1953).

B. Regional Hydrogeology

Summit County was named for the position that it occupies at the summit of a major water divide (United States Department of Agriculture, 1974). The portion of the county north of Akron is drained by the Cuyahoga River into the Great Lakes Basin. South of Akron, the county is drained by the Tuscarawas River as part of the Muskingum and Ohio River systems. While Summit County has ample ground water supplies in both the glacial drift and bedrock, ground water supplies are unevenly distributed throughout the area (Smith and White, 1953).

Springfield Township is located in the southeastern portion of Summit County. Water wells in this township obtain water from sand and gravel outwash and kame moraine material or from the Pennsylvanian-age Pottsville Formation bedrock shales and sandstone (Smith and White, 1953). Water wells located in Springfield Township, are generally less than 100 feet deep, with averages of about 70 feet (Smith and White, 1953). Well casing depth is generally less than total well depth especially for wells completed in bedrock. Ground water yields range up to 125 gallons a minute from the sands and gravels and up to 50 gallons a minute from the bedrock (Smith and White, 1953).

C. Site Geology

The site and associated property are located within an area known as the Kent Moraine. As discussed by White (1982), the Kent Moraine is characterized as a wide irregular belt of very hummocky topography with many kames. The Kent Moraine ranges in width from about 5 to almost 15 miles and Kent, Lavery, and Hiram Tills are present throughout the moraine itself. Till thicknesses in this area are estimated to range from 5 to 16 feet. Additionally, the Pennsylvanian age Pottsville Formation, composed of sandstone and shale deposits, underlies the site and associated property.

The topography of the site and surrounding property reflects the hummocky nature of the Kent Moraine. Elevations at the site and the associated Sam Winer Property range from about 1130 feet amsl along the western edge of the Sam Winer Property to a topographic high of 1279 feet amsl along the eastern edge of the property (Figure 1).

Stratigraphy for the site and surrounding property was compiled from Ohio Department of Natural Resources (ODNR) water well logs and is presented below. The stratigraphy within the site and surrounding Sam Winer Property is summarized below:

Subsurface	North	South	East	West
Clay-Sand-Gravel	0 to 20' bgs	0 to 31' bgs	0 to 86' bgs	0 to 20' bgs
Shale (top of bedrock)	33 to 235' bgs	31 to 85' bgs	81 to 103' bgs	20 to 212' bgs
Sandstone	> 235' bgs	Unknown	103 to 105' bgs	> 21' bgs
All depths were measured below ground surface (bgs).				

The site and surrounding property soils are largely composed of five distinct soil series: Chili, Canfield, Sebring, Jimtown, and Wheeling. The soils within the site and surrounding property are summarized below:

Soil Series	Description	Forms In	Site Location
Chili Series	Nearly level to steep, well-drained soils on outwash terraces and kames	Sandy and gravelly glacial outwash; loamy outwash material overlying sand and gravel of Wisconsin age	Throughout the central portion of the Sam Winer property
Canfield Series	Deep, moderately well-drained, nearly level to sloping soils, that have a fragipan ¹ , on uplands	Loam and silt loam glacial till of Wisconsin age	North-central portion of the Sam Winer property and the Sam Winer's Motors site

Sebring Series	Nearly level, poorly drained soils on stream terraces	Sediment high in silt content.	Along two intermittent streams located in the eastern and northwestern portions of the Sam Winer property
Jimtown Series	Deep, somewhat poorly drained, nearly level to gently sloping soils on outwash terraces	Loamy outwash overlying sand and gravel outwash of Wisconsin age	North-central portion of the Sam Winer property
Wheeling Series	Nearly level to gently sloping, well-defined soils on outwash terraces; upper 30 to 48 inches of this soil is a silt loam	Loamy material over outwash gravel and sand	Southwestern to south-central portion of the Sam Winer property
<p>Soil information obtained from the Soil Survey of Summit County (United States Department of Agriculture, 1974).</p> <p>1 = A fragipan is a loamy, brittle, subsurface horizon that is very low in organic-matter content and clay, but is rich in silt or very fine sand. The layer is seemingly cemented, generally occurs below the B horizon, and ranges from a few inches to several feet thick (United States Department of Agriculture, 1974).</p>			

Other soil series present within the Sam Winer property are Conotton, Fitchville, Ravenna, Holly, Orrville, and Loudonville. Figure 3 illustrates the location of all soil series in this area.

D. Site Hydrogeology

The Sam Winer Property is situated 4,200 feet east of Springfield Lake, 6000 feet northwest of Wingfoot Lake, and 8600 feet south of the Little Cuyahoga River. The property is located in a ground water area which yields good water supplies for various uses (Smith and White, 1953). The Pottsville Formation may yield ground water at a rate of 3 to 10 gallons per minute (gpm), which is sufficient for domestic and farm uses (Schmidt, 1979). In addition, the Sharon Conglomerate, the lowermost member of the Pottsville Formation, can yield up to 50 gpm (Schmidt, 1979). Figure 4 illustrates the ground water resources located in and around Springfield Township (Schmidt, 1979).

In 1995, Raab and Haiker of the Ohio Department of Natural Resources (ODNR) - Division of Water conducted a hydrological investigation in the Bey Road area adjacent to the Sam Winer property. Their findings were published in a technical report entitled, "Potentiometric Surface Map of the Bedrock Aquifer in the Vicinity of Bey Road, Springfield Township, Summit County" (Raab and Haiker, 1995). During this investigation, static water levels were measured in a 3.5 square mile area centered around Bey Road. A total of twenty-one wells in both Summit

and Portage Counties were measured. According to Raab and Haiker (1995), most of the wells were completed in Pennsylvanian-age sandstone and shale aquifers between depths of 50 and 120 feet below ground surface (bgs). Raab and Haiker (1995) also noted several ground water divides in the area. One divide is located at the topographic high between Bey and Portage Line Roads. According to Raab and Haiker (1995), the ground water in the study area flows from east to west beneath Bey Road and from west to east beneath Portage Line Road. A second ground water divide coincides with the topographic high located at Waterloo and Neal Roads, with ground water flowing from this high toward an unnamed stream valley located to the east and south (Raab and Haiker, 1995). Additionally, Raab and Haiker (1995) indicated that ground water appears to discharge to an unnamed stream from the location of both topographic highs during the wet times of the year. Figure 5 illustrates the potentiometric surface map of the Bey Road, Springfield Township, Summit County taken from Raab and Haiker (1995). There are no ground water monitoring wells at any of the parcels of land at the Sam Winer site.

4.0 SAMPLING LOCATIONS & DISCUSSION OF RESULTS

Groundwater and soil samples, were collected during the IA investigation performed on July 7, 1999. Samples were analyzed by U.S. EPA Contract Laboratory Program laboratories. Analyses included the following parameters: Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), pesticides, PCBs, and TAL metals.

Complete analytical results of this investigation are contained in Appendix B . Elevated findings based on these data are summarized in Table 3. Data were reviewed by U.S. EPA Region V personnel for compliance with the Contract Laboratory Program, and validated by Region V Central Regional Laboratory staff.

A photographic log of sampling locations can be found in Appendix A. Standard quality assurance and quality control (QA/QC) procedures for Site Investigation (SI) field activities were followed during the investigation. These procedures, including sample collection, packaging and shipping, and equipment decontamination, are documented in the “Quality Assurance Project Plan” (QAPP) for Region V Superfund site inspection activities for Ohio EPA and “Ohio EPA Field Standard Operating Procedures.”

4.1 Soil

Four soil samples were collected from the site from three locations using Geoprobe™ direct push coring technology (figure 8). Each soil sample was sent to a U.S.EPA Contract Lab for full analysis.

Sample SW-GSO-01 was collected at the pad area of the former gas station pad just east of the former restaurant, and south of East Waterloo Road (figure 8). A residential area utilizing local groundwater for drinking is less than 200 feet away. The soil in the 0-4 foot core consisted of a backfill mixture of sand and gravel. The soil in the 4-8 foot core consisted of sands, gravels and

silts mixed in with a tan, wet clay. Sample SW-GSO-01 was collected from a composite of the interval from 4-8 feet. The 4-8 foot interval had a very strong solvent odor associated with it. The organic vapor detector detected vapors at 1350 ppm. Refusal was encountered at 8 feet.

Lab results indicated high levels of volatiles and semi-volatiles present in soil sample SW-GSO-01. 1,1,1, trichloroethane was detected in the sample at 71,000 parts per billion (ppb), toluene at 160,000 ppb, ethylbenzene at 24,000 ppb, and xylene at 110,000 ppb. Elevated semi-volatiles detected include 1,2 dichlorobenzene at 170,000 ppb, n-nitrosodiphenylamine at 200,000 ppb, pyrene at 6200 ppb, and bis-(2-ethylhexyl)phthalate at 300,000 ppb.

Soil sample SW-GSO-02 & SW-GSO-03 (duplicate) were both collected approximately 45 feet north of soil sample SW-GSO-01. A soil core was collected at the northern portion of the gas station platform approximately 30 feet south of E. Waterloo Road. Dark gray-to-brown clay mixed with fill material was present in the top five feet and had a very strong petroleum odor. Photoionization detection instruments detected organic vapors at 493 parts per million (ppm) from this section of soil. Samples SW-GSO-02 and SW-GSO-03 (duplicate) were collected from the 3-6 foot interval. Brown and grey mottled clay was present from 5-8 feet.

Analytical results for soil samples SW-GSO-02 and 03 indicate relatively low levels of volatiles and semivolatiles. Ethylbenzene was found at 3 ppb, xylene at 10 ppb, chlorobenzene at 8 ppb, and trichloroethene at 1 ppb. Various semivolatiles were found at levels up to 960 ppb in the soil samples.

Soil sample SW-GSO-04 was collected at the northwest corner of the annex building, at the former underground storage tank area (figure 8). Soil cores were collected from this location at a maximum depth of 11 feet. The cores consisted of dark gray clay saturated with hydrocarbons interspersed with thin, wet gravel layers. Organic vapor detectors indicated volatile compounds in the sample volume. Sample SW-GSO-04 was collected from these cores and sent to labs for full analysis.

Lab results indicate volatiles present in the sample such as ethylbenzene at 3300 ppb, and xylene at 1900 ppb. Semi-volatiles were also detected, including 2-methylnaphthalene at 6500 ppb, phenanthrene at 2300 ppb, and napthalene at 2200 ppb.

4.2 Groundwater

As part of the IA investigation, twelve residential wells in the area were sampled in 1999 (figure 1). All twelve were scanned for volatile organic compound analysis and five wells were sent to labs for full analysis.

The analytical results are included in Appendix B, and copies of notifications sent to residential well owners can be found in Appendix C.

No constituents analyzed in the residential wells were above the method detection limits (MDLs)

Two Geoprobe™ ground water samples (SW-GPW-01 and 02) were also collected at the former gas station location (Figure 8). The samples were collected from the same locations that soil samples SW-GSO-01, 02, and 03 were collected.

Groundwater sample SW-GPW-01 was collected at the pad area just east of the former restaurant, and south of East Waterloo Road. Soil sample SW-GSO-01 was also collected at this location. Organic vapors measured from the top of the groundwater sampling rod at ground surface were detected at 2500 ppm. Ground water was collected from 7-8 feet below ground surface.

Due to available water volume, ground water sample SW-GPW-01 was scanned for volatile organic compounds only. Extremely high levels of volatiles were detected in this sample. Among the highest concentrations were vinyl chloride at 1200 ppb, methylene chloride at 120,000 ppb, 1,1,1 trichloroethane at 400,000 ppb, trichloroethene at 210,000 ppb, toluene at 580,000 ppb, xylene at 300,000 ppb, ethylbenzene at 65,000 ppb, and benzene at 2400 ppb.

Ground water sample SW-GPW-02 was collected from the northern portion of the gas station, 25 feet south of East Waterloo Road, and within 5 feet of soil samples SW-GSO-02 and 03. Ground water for sample SW-GPW-02 was collected at approximately 7-8 feet below ground surface and due to water volume was sampled only for volatile organic compounds. Lab results indicate no volatiles present in this sample.

4.3 Sediment and Surface Water

Sediment and surface water samples were not collected on or off-site because there was no evidence of a release into a surface water body. Intermittent ditches drain the runoff from the Sam Winer property during a rain event. There was no evidence of contaminated soil at the surface that would contribute to contaminated overland surface water flow.

5.0 MIGRATION PATHWAYS

5.1 Soil Exposure Pathway

Three soil samples were collected from the Sam Winer property at depths ranging from 3-to-11 feet. Lab results indicate that organic soil contamination does exist in two areas between this 3-to-11 foot interval, most likely due to former UST's. No contamination was found in the top two feet of soil on the property.

Since the minimum depth of observed contamination on the site is three feet, there is not an immediate threat for direct contact to contaminated soil by users of the property, but the potential does exist. The main source area where soil samples SW-GSO-01, SW-GSO-02, and SW-GSO-03 were collected, used to be a former gas station and is now an open lot which is completely accessible. This is the only area of the property not surrounded by a maintained fence.

There are no daycare facilities or schools within 200 feet of an area of observed contamination however, there are residences located within 200 feet of these source areas. There are no endangered species identified within the target distance limit. The only users of the Sam Winer property are the regular employees and intermittent visitors that purchase the vehicles.

No other resources have been identified except groundwater.

5.2 Groundwater Pathway

Results from drinking water samples collected from residents and public water supplies in the vicinity of the site were all below method detection limits. However, organic compounds were detected in Geoprobe™ ground water samples collected from the former gas station area. These sample locations are less than 100 feet from residences that utilize the local ground water.

An observed release of organic contamination to ground water was documented in the gas station area with ground water sample SW-GPW-01 (Figure 8). This sample was collected with the Geoprobe™. Similar contamination was not found at the Geoprobe™ borehole 50 feet to the north (toward the residential wells) of sample SW-GPW-01. The potential for contamination of the local drinking water wells still does exist. The nearest public drinking water supply is a trailer park 2400 feet to the west. No contaminants were detected at this location.

Within 1 mile of the former gas station area, 2,572 people utilize the local groundwater. There are 5,966 people that utilize the groundwater within 1-2 miles, 1,920 people within 2-3 miles and 8,240 people within 3-4 miles (see attached gis maps, Appendix E). A wellhead protection program is not known to exist in the immediate area.

5.3 Surface Water Exposure Pathway

The surface water pathway was evaluated, and a point of probable entry (PPE) for contaminants migrating from the site could not be established for surface water. Contaminated soil found on site was below three feet and would not contribute to contaminated runoff. Intermittent ditches and sewers drain the property during a rain event. Nonetheless, the 15-mile target distance limit (TDL) was evaluated for the closest surface water body to the site which was the outlet to Springfield Lake and the Little Cuyahoga River. No endangered species or drinking water targets were identified within this TDL.

5.4 Air Pathway

The air pathway was not evaluated, and no samples were collected for analysis. Much of the site is either well-vegetated or covered with packed gravel. Dust hazards are present but surface soil contamination has not been documented. Although Ohio EPA personnel did not initiate a formal air sampling program at the Sam Winer site, portable air monitoring was conducted.

There are no sensitive environments, or other resources within four miles of the site that may be adversely affected by the air pathway.

6.0 REFERENCES:

- 1 Environmental Research, Inc. 1996. Aerial Photographic Analysis, Sam Weiner Property, Summit County, Ohio. United States Environmental Protection Agency. Characterization Research Division. 19 p.
2. Raab, J., and W. Haiker. 1995. Potentiometric Surface Map of the Bedrock Aquifer in the Vicinity of Bey Road, Springfield Township, Summit County. ODNR-Division of Water-Water resources Section. Technical Report of Investigation 95-1. p.1-6.
3. Schmidt, J. J. 1979. Ground-Water Resources of Summit County after Smith, R.C. 1952. Ohio Department of Natural Resources- Division of Water. map
4. Smith, R.C. 1953. The Ground-Water Resources of Summit County and the approximate contours on the Bedrock Surface (map) *in* The ground-water resources of Summit County, Ohio. Ohio Division of Water Bulletin 27. 130 p.
5. Smith, R.D., and G.W. White. 1953. The ground-water resources of Summit County, Ohio: Ohio Division of Water Bulletin 27. 130 p.
6. Stout, W., K. Ver Steeg, and G.F. Lamb. 1943. Geology of water in Ohio. Ohio Geological Survey Bulletin 26. 588 p.
- 7 United States Department of Agriculture, in cooperation with the Ohio Department of Natural Resources and the Ohio Agricultural Research and Development Center. 1974. Soil Survey of Summit County, Ohio. U.S. Government Printing Office. p.117.
- 8 White, G.W. 1982. Glacial Geology of Northeastern Ohio. Ohio Geological Survey Bulletin 68. 66 p.

APPENDIX A

Sam Winer Motors Integrated Assessment
Photo Log



Offices of Sam Winer Motors.



Former restaurant (background) and gas station pad (foreground).



Former gas station pad. Soil samples SW-GSO-01 through 03 collected here.



Soil core taken from gas station area showing contaminated soil.



Northwest corner of annex building. Soil sample SW-GSO-04 collected here.



Sam Winer Salvage Yard.

Sam Winer Motors Integrated Assessment
Photo Log



Sam Winer Salvage Yard.



Sam Winer Salvage Yard.



Sam Winer Salvage Yard.



Sam Winer Salvage Yard.

APPENDIX B

Sam Winer Motors Integrated Assessment
Geoprobe Ground Water and Soil Results

Sample Number :	ECKC4	ECKC4DL	ECKC5	ECKC6	ECKC7	ECHR4	ECHR4DL	ECQE1
Sampling Location :	SW-GSO-01	SW-GSO-01	SW-GSO-03	SW-GSO-04	SW-GSO-02	SW-GPW-01	SW-GPW-01	SW-GPW-02
Matrix :	Soil	Soil	Soil	Soil	Soil	Water	Water	Water
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/L	ug/L
Date Sampled :	07/06/99	07/06/99	07/06/99	07/07/99	07/06/99	07/06/99	07/06/99	07/07/99
Time Sampled :	11:55	11:55	15:35	10:15	15:25	13:00	13:00	09:00
Dilution Factor :	1.0	10.0	1.0	1.0	1.0	2.0	2.0	1.0
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag
CHLOROMETHANE	3100	U	15000	U	12	U	1500	U
BROMOMETHANE	3100	UJ	15000	UJ	12	U	1500	UJ
VINYL CHLORIDE	3100	U	15000	U	12	U	1500	U
CHLOROETHANE	3100	UJ	15000	UJ	12	U	1500	UJ
METHYLENE CHLORIDE	8500		10000	J	13	J	370	J
ACETONE	7200	J	26000	J	33	UJ	1500	UJ
CARBON DISULFIDE	3100	U	15000	U	4	J	1500	U
1,1-DICHLOROETHENE	480	J	15000	U	12	U	1500	U
1,1-DICHLOROETHANE	2100	J	2800	J	12	U	1500	U
TOTAL 1,2-DICHLOROETHENE	3100	U	15000	U	12	U	1500	U
CHLOROFORM	3100	U	15000	U	12	U	1500	U
1,2-DICHLOROETHANE	1200	J	15000	U	12	U	1500	U
2-BUTANONE	3100	U	15000	U	7	J	1500	U
1,1,1-TRICHLOROETHANE	71000		71000		12	U	1500	U
CARBON TETRACHLORIDE	7300		15000	U	12	U	1500	U
BROMODICHLOROMETHANE	3100	U	15000	U	12	U	1500	U
1,2-DICHLOROPROPANE	3100	U	15000	U	12	U	1500	U
CIS-1,3-DICHLOROPROPENE	3100	U	15000	U	12	U	1500	U
TRICHLOROETHENE	40000		43000		1	J	1500	U
DIBROMOCHLOROMETHANE	3100	U	15000	U	12	U	1500	U
1,1,2-TRICHLOROETHANE	3100	U	15000	U	12	U	1500	U
BENZENE	450	J	15000	UJ	12	UJ	1000	J
TRANS-1,3-DICHLOROPROPENE	3100	U	15000	U	12	U	1500	U
BROMOFORM	3100	U	15000	U	12	UJ	1500	U
4-METHYL-2-PENTANONE	3100	U	15000	U	12	U	1500	U
2-HEXANONE	3100	UJ	15000	UJ	12	U	1500	UJ
TETRACHLOROETHENE	4600		5000	J	12	U	1500	U
1,1,2,2-TETRACHLOROETHANE	3100	U	15000	U	12	U	1500	U
TOLUENE	160000	J	180000	J	8	J	160	J
CHLOROBENZENE	500	J	15000	UJ	12	UJ	1500	UJ
ETHYLBENZENE	24000	J	27000	J	2	J	3300	J
STYRENE	8200	J	8900	J	12	UJ	1500	UJ
XYLENE (TOTAL)	110000	J	120000	J	10	J	1900	J

WBID: **OH49 55**Initials **MB**Date of Assessment: **199904**WB Name: **STERLING RUN**Dates of Data Collection: (YY/MM): Earliest: **199707** Latest **199709**

Assessment Types: Assess Cat. MB

	Full Support	Threatened	Partial	Non-Support
Aq Life Use Support:	2.7	0.0	0.0	8.6

	Very	Marg.		
Excellent:	Good:	Good:	Fair:	Poor:

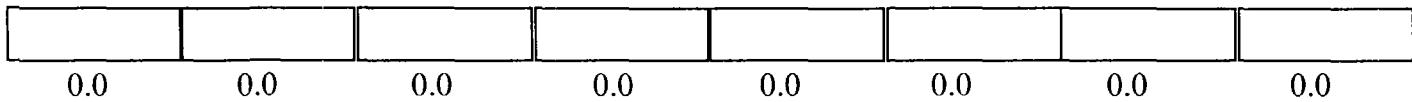
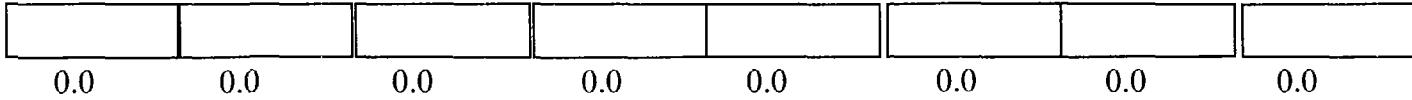
Narrative: 2.7 2.7 8.6

Aquatic Contamination: None: 0 Tissue: 0 Advisory: 0

Beach Closure: 0 Anomalies: 0 Fish Kills: 0

Sediment Cont. 0 ?: 0 Other: 0

Cycle:

2000**Causes:****Sources:****Toxic Media/Pollutants****Sampled:**

Miles of Segment Monitored for Toxics: 0.0

Upstream from Lake Grant small stream size and possible intermittent flow conditions influence the biological communities. Possible impacts from row crop agriculture and livestock exist as exceedences of phosphorus and E. Coli were recorded. Downstream from Lake Grant and Snapping Turtle Run (Mount Orab WWTP) the macroinvertebrate community was exceptional (ICI=50), and the fish community was good (IBI=44, MIwb=8.4). Runoff from livestock pastures, and sediment embeddedness may be moderately impacting the fish community.

Sam Winer Motors Integrated Assessment Geoprobe Ground Water and Soil Results

Sample Number :	ECKC4	ECKC4DL	ECKC5	ECKC6	ECKC6DL	ECKC7						
Sampling Location :	SW-GSO-01	SW-GSO-01	SW-GSO-03	SW-GSO-04	SW-GSO-04	SW-GSO-02						
Matrix :	Soil	Soil	Soil	Soil	Soil	Soil						
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg						
Date Sampled :	07/06/1999	07/06/1999	07/06/1999	07/07/1999	07/07/1999	07/06/1999						
Time Sampled :	11:55	11:55	15:35	10:15	10:15	15:25						
Dilution Factor :	10.0	100.0	1.0	1.0	5.0	1.0						
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag				
PHENOL	8100	J	200000	U	380	U	410	U	2000	U	400	U
BIS(2-CHLOROETHYL) ETHER	120000	U	200000	U	380	U	410	U	2000	U	400	U
2-CHLOROPHENOL	120000	U	200000	U	380	U	410	U	2000	U	400	U
1,3-DICHLOROBENZENE	120000	U	200000	U	380	U	410	U	2000	U	400	U
1,4-DICHLOROBENZENE	18000	J	200000	U	380	U	410	U	2000	U	400	U
1,2-DICHLOROBENZENE	170000		160000	J	380	U	410	U	2000	U	400	U
2-METHYLPHENOL	120000	U	200000	U	380	U	410	U	2000	U	400	U
2,2'-OXYBIS(1-CHLOROPROPANE)	120000	U	200000	U	380	U	410	U	2000	U	400	U
4-METHYLPHENOL	120000	U	200000	U	380	U	410	U	2000	U	400	U
N-NITROSO-DI-N-PROPYLAMINE	120000	U	200000	U	380	U	410	U	2000	U	400	U
HEXACHLOROETHANE	120000	U	200000	U	380	U	410	U	2000	U	400	U
NITROBENZENE	120000	U	200000	U	380	U	410	U	2000	U	400	U
ISOPHORONE	15000	J	200000	U	380	U	410	U	2000	U	400	U
2-NITROPHENOL	120000	U	200000	U	380	U	410	U	2000	U	400	U
2,4-DIMETHYLPHENOL	120000	U	200000	U	380	U	410	U	2000	U	400	U
BIS(2-CHLOROETHOXY) METHANE	120000	U	200000	U	380	U	410	U	2000	U	400	U
2,4-DICHLOROPHENOL	120000	U	200000	U	380	U	410	U	2000	U	400	U
1,2,4-TRICHLOROBENZENE	8800	J	200000	U	380	U	410	U	2000	U	400	U
NAPHTHALENE	120000	U	200000	U	130	J	2200		2300		230	J
4-CHLOROANILINE	120000	U	200000	U	380	U	410	U	2000	U	400	U
HEXACHLOROBUTADIENE	120000	U	200000	U	380	U	410	U	2000	U	400	U
4-CHLORO-3-METHYLPHENOL	120000	U	200000	U	380	U	410	U	2000	U	400	U
2-METHYLNAPHTHALENE	120000	U	200000	U	130	J	6500		7300		230	J
HEXACHLOROCYCLOPENTADIENE	120000	U	200000	U	380	U	410	U	2000	U	400	U
2,4,6-TRICHLOROPHENOL	120000	U	200000	U	380	U	410	U	2000	U	400	U
2,4,5-TRICHLOROPHENOL	310000	U	100000	U	950	U	1000	U	5100	U	1000	U
2-CHLORONAPHTHALENE	120000	U	200000	U	380	U	410	U	2000	U	400	U
2-NITROANILINE	310000	U	100000	U	950	U	1000	U	5100	U	1000	U
DIMETHYLPHTHALATE	120000	U	200000	U	380	U	410	U	2000	U	400	U
ACENAPHTHYLENE	120000	U	200000	U	380	U	410	UJ	2000	U	36	J
2,6-DINITROTOLUENE	120000	U	200000	U	380	U	410	U	2000	U	400	U
3-NITROANILINE	310000	U	100000	U	950	U	1000	U	5100	U	1000	U
ACENAPHTHENE	120000	U	200000	U	25	J	550		280	J	34	J

WBID: **OH49 49**Initials **MB**Date of Assessment: **199904**WB Name: **TOWN RUN**Dates of Data Collection: (YY/MM): Earliest: **199707**Latest **199709**

Assessment Types:

Assess Cat. **MB**

	Full Support	Threatened	Partial	Non-Support
Aq Life Use Support:	2.2	0.0	0.8	0.0
Excellent:	Very Good:	Marg. Good:	Fair:	Poor:
				Very Poor:

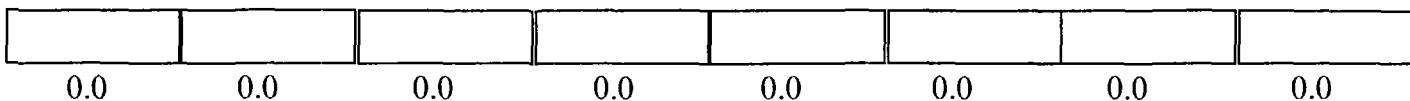
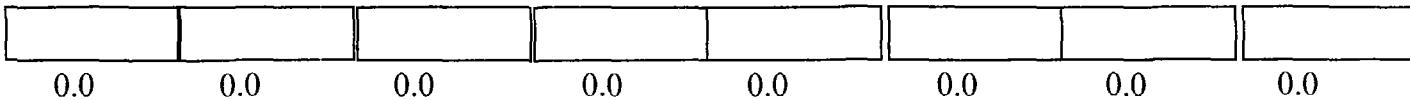
Narrative: 2.2 0.8

Aquatic Contamination: None: 0 Tissue: 0 Advisory: 0

Cycle:

Beach Closure: 0 Anomalies: 0 Fish Kills: 0

Sediment Cont. 0 ?: 0 Other: 0

2000**Causes:****Sources:****Toxic Media/Pollutants**

Sampled:

Miles of Segment Monitored for Toxics: 0.0

The biological communities were poor upstream from the Georgetown WWTP, apparently due to periodic intermittent flow conditions. Downstream from the WWTP the macroinvertebrate community was very poor due to high densities of tolerant taxa. High concentrations of nutrients appear to be the primary cause of the community decline. High numbers of E. Coli and Fecal Coliforms indicate the Georgetown WWTP needs to upgrade its treatment.

Sample Number :	ECKC4	ECKC4DL	ECKC5	ECKC6	ECKC6DL	ECKC7
Sampling Location :	SW-GSO-01	SW-GSO-01	SW-GSO-03	SW-GSO-04	SW-GSO-04	SW-GSO-02
Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Date Sampled :	07/06/1999	07/06/1999	07/06/1999	07/07/1999	07/07/1999	07/06/1999
Time Sampled :	11:55	11:55	15:35	10:15	10:15	15:25
%Moisture :	19	19	13	19	19	17
pH :	10.0	10.0	8.6	8.3	8.3	8.0
Dilution Factor :	10.0	100.0	1.0	1.0	5.0	1.0
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag
2,4-DINITROPHENOL	310000	U	100000	U	950	U
4-NITROPHENOL	310000	R	100000	U	950	U
DIBENZOFURAN	120000	U	200000	U	40	J
2,4-DINITROTOLUENE	120000	U	200000	U	380	U
DIETHYLPHTHALATE	120000	U	200000	U	380	U
4-CHLOROPHENYL-PHENYLETHER	120000	U	200000	U	380	U
FLUORENE	120000	U	200000	U	52	J
4-NITROANILINE	310000	U	100000	U	950	U
4,6-DINITRO-2-METHYLPHENOL	310000	U	100000	U	950	U
N-NITROSODIPHENYLAMINE	200000		300000		380	U
4-BROMOPHENYL-PHENYLETHER	120000	U	200000	U	380	U
HEXACHLOROBENZENE	120000	U	200000	U	380	U
PENTACHLOROPHENOL	310000	R	100000	U	950	U
PHENANTHRENE	120000	U	200000	U	380	
ANTHRACENE	120000	U	200000	U	90	J
CARBAZOLE	120000	U	200000	U	29	J
DI-N-BUTYLPHTHALATE	16000	J	200000	U	380	U
FLUORANTHENE	120000	U	200000	U	450	
PYRENE	6200	J	200000	U	390	
BUTYLBENZYLPHTHALATE	120000	U	200000	U	380	U
3,3'-DICHLOROBENZIDINE	120000	U	200000	U	380	U
BENZO (A) ANTHRACENE	120000	U	200000	U	230	J
CHRYSENE	120000	U	200000	U	230	J
BIS (2-ETHYLHEXYL) PHTHALATE	300000		400000		380	U
DI-N-OCTYLPHTHALATE	120000	U	200000	U	380	U
BENZO (B) FLUORANTHENE	120000	U	200000	U	190	J
BENZO (K) FLUORANTHENE	120000	U	200000	U	200	J
BENZO (A) PYRENE	120000	U	200000	U	170	J
INDENO (1,2,3-CD) PYRENE	120000	U	200000	U	120	J
DIBENZ (A, H) ANTHRACENE	120000	U	200000	U	380	U
BENZO (G, H, I) PERYLENE	120000	U	200000	U	39	J

WBID: **OH49 42**Initials **MB**Date of Assessment: **199904**WB Name: **WHITEOAK CREEK (STERLING RUN TO OHIO RIVER)**Dates of Data Collection: (YY/MM): Earliest: **199707** Latest **199709**

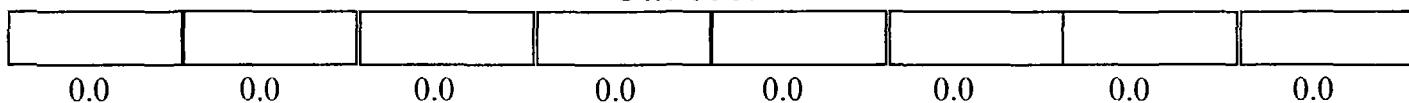
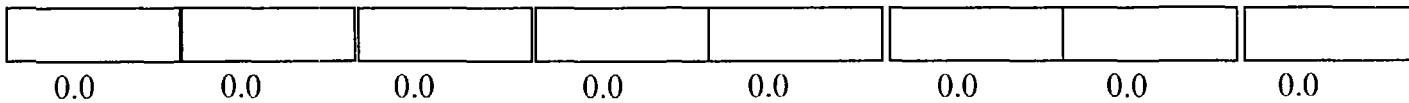
Assessment Types:

Assess Cat. **MB*****Full Support Threatened Partial Non-Support***Aq Life Use Support: **0.0** **0.0** **20.7** **0.0**

Very	Marg.				
Excellent:	Good:	Good:	Fair:	Poor:	Very Poor:

Narrative: **20.7** **20.7**Aquatic Contamination: None: **0** Tissue: **0** Advisory: **0**Beach Closure: **0** Anomalies: **0** Fish Kills: **0**Sediment Cont. **0** ?: **0** Other: **0**

Cycle:

2000**Causes:****Sources:****Toxic Media/Pollutants**

Sampled:

Miles of Segment Monitored for Toxics: **0.0**

The biological stations on Whiteoak Creek had very good to exceptional macroinvertebrate communities and good fish communities. Elevated nutrients at several locations may be moderately impacting the biological communities. The WWTPs in Sardinia, Mount Orab and Georgetown were the primary sources of nutrients in the basin. High bacterial counts of E. Coli and Fecal Coliforms were present. Additionally, elevated levels of pesticides were present at river miles 12.8 and 6.6. High to moderate siltation was recorded at all sites in the segment.

Sam Winer Motors Integrated Assessment
Geoprobe Ground Water and Soil Results

Sample Number :	ECKC4	ECKC4DL	ECKC5	ECKC6	ECKC7	
Sampling Location :	SW-GSO-01	SW-GSO-01	SW-GSO-03	SW-GSO-04	SW-GSO-02	
Matrix :	Soil	Soil	Soil	Soil	Soil	
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Date Sampled :	07/06/1999	07/06/1999	07/06/1999	07/07/1999	07/06/1999	
Time Sampled :	11:55	11:55	15:35	10:15	15:25	
%Moisture :	19	19	13	19	17	
pH :	10.0	10.0	8.6	8.3	8.0	
Dilution Factor :	1.0	10.0	1.0	1.0	1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag
ALPHA-BHC	2.1	U	21	U	2.0	U
BETA-BHC	2.1	U	21	U	2.0	U
DELTA-BHC	0.51	J	21	U	2.0	U
GAMMA-BHC (LINDANE)	2.1	U	21	U	2.0	U
HEPTACHLOR	2.1	U	19	J	2.0	U
ALDRIN	2.1	U	21	U	2.0	U
HEPTACHLOR EPOXIDE	2.1	U	21	U	2.0	U
ENDOSULFAN I	2.1	U	21	U	2.0	U
DIELDRIN	4.1	U	41	U	3.8	U
4,4'-DDE	150	J	200	J	3.8	U
ENDRIN	24	J	41	U	3.8	U
ENDOSULFAN II	4.1	U	16	J	3.8	U
4,4'-DDD	5.2	J	9.2	J	3.8	U
ENDOSULFAN SULFATE	4.1	U	41	U	4.1	U
4,4'-DDT	4.1	U	41	U	3.8	U
METHOXYCHLOR	21	U	210	U	20	U
ENDRIN KETONE	4.1	U	5.7	J	1.3	J
ENDRIN ALDEHYDE	4.1	U	21	J	3.8	U
ALPHA-CHLORDANE	57	J	78		2.0	U
GAMMA-CHLORDANE	80	J	81	J	2.0	U
TOXAPHENE	210	U	2100	U	200	U
AROCLOR-1016	41	U	410	U	38	U
AROCLOR-1221	83	U	830	U	77	U
AROCLOR-1232	41	U	410	U	38	U
AROCLOR-1242	41	U	410	U	38	U
AROCLOR-1248	41	U	410	U	38	U
AROCLOR-1254	460	J	700	J	38	U
AROCLOR-1260	520		940	J	38	U

Sam Winer Motors Integrated Assessment
Geoprobe Soil Results

Sample Number :	MEBSE4	MEBSE5	MEBSE6	MEBSE7
Sampling Location	SW-GSO-01	SW-GSO-03	SW-GSO-04	SW-GSO-02
Matrix :	Soil	Soil	Soil	Soil
Units :	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Date Sampled :	07/06/1999	07/06/1999	07/06/1999	07/06/1999
Time Sampled :	11:55	15:35	10:15	15:25
%Solids :	83.3	77.8	82.9	82.4
Dilution Factor :	1.0	1.0	1.0	1.0
ANALYTE	Result Flag	Result Flag	Result Flag	Result Flag
ALUMINUM	8100	10500	8570	11600
ANTIMONY	0.69 R	0.77 R	0.69 R	2.6 J
ARSENIC	8.2 J	11.7 J	12.1 J	11.0 J
BARIUM	206 J	97.7 J	77.6 J	79.7 J
BERYLLIUM	0.39	0.74	0.60	0.59
CADMIUM	0.25	0.13 U	0.11 U	0.12 U
CALCIUM	49200 J	3690 J	5360 J	7690 J
CHROMIUM	37.8 J	13.6 J	12.4 J	16.0 J
COBALT	6.5	10.1	8.5	7.2
COPPER	20.8	20.6	19.9	21.3
IRON	18200 J	23100 J	24400 J	25100 J
LEAD	37.2 J	26.6 J	17.8 J	21.5 J
MAGNESIUM	3780 J	1990 J	1950 J	2640 J
MANGANESE	955 J	985 J	448 J	827 J
MERCURY	0.12 J	0.060 U	0.060 U	0.060 U
NICKEL	14.5	14.7	19.3	14.0
POTASSIUM	796	968	982	919
SELENIUM	1.7 J	1.9 J	1.9 J	2.8
SILVER	0.62 J	1.1 J	1.1 J	1.3 J
SODIUM	329	237	174	232
THALLIUM	1.1	1.3	1.2	1.2
VANADIUM	18.4 J	23.3 J	20.6 J	22.3 J
ZINC	73.9 J	71.0 J	65.6 J	59.6 J
CYANIDE	0.090 J	0.18 J	0.050 UJ	0.33 J

SAMPLE NUMBER	ECHS0	ECHS1	ECHS2	ECHS3	ECHS4	ECQE2	ECHS5	ECHS6	ECHS7	ECQE3	ECQE4	
DATE SAMPLE COLLECTED	7/6/99	7/6/99	7/6/99	7/6/99	7/6/99	7/7/99	7/7/99	7/7/99	7/7/99	7/7/99	7/7/99	
DESCRIPTION	E. Waterloo	3531	3651	3488	3568	3500	Sam Winer	3539	3553	3547	3271 950 BEY	
VOLATILE ORGANIC COMPOUNDS	CRQL											
xlenes (total)	1.0 ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,3-dichlorobenzene	1.0 ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,4-dichlorobenzene	1.0 ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,2-dichlorobenzene	1.0 ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,2-dibromo-3-chloropropane	1.0 ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,2,4-trichlorobenzene	1.0 ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
SEMI-VOLATILE ORGANIC COMPO	CRQL											
phenol	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
bis(2-chloroethyl)ether	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
2-chlorophenol	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
1,4-dichlorobenzene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
2-methylphenol	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
2,2-oxybis(1-chloropropane)	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
4-methylphenol	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
n-nitroso-di-n-dipropylamine	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
hexachloroethane	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
nitrobenzene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
isophorone	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
2-nitrophenol	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
2,4-dimethylphenol	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
bis(2-chloroethoxy)methane	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
2,4-dichlorophenol	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
naphthalene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
4-chloroaniline	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
hexachlorobutadiene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
4-chloro-3-methylphenol	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
2-methylnaphthalene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
hexachlorocyclopentadiene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
2,4,6-trichlorophenol	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
2,4,5-trichlorophenol	20 ug/l	20 U										
2-chloronaphthalene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
2-nitroaniline	20 ug/l	20 U										
dimethylphthalate	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					

SAMPLE NUMBER		ECHS0	ECHS1	ECHS2	ECHS3	ECHS4	ECQE2	ECHS5	ECHS6	ECHS7	ECQE3	ECQE4
DATE SAMPLE COLLECTED		7/6/99	7/6/99	7/6/99	7/6/99	7/6/99	7/7/99	7/7/99	7/7/99	7/7/99	7/7/99	7/7/99
DESCRIPTION	E. Waterloo	3531	3651	3488	3568	3500	Sam Winer	3539	3553	3547	3271	950 BEY
SEMI-VOLATILE ORGANIC COMPO												
acenaphthylene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
2,6-dinitrotoluene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
3-nitroaniline	20.0 ug/l	20 U										
acenaphthene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
2,4-dinitrophenol	20.0 ug/l	20 U										
4-nitrophenol	20.0 ug/l	20 U										
dibenzofuran	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
2,4-dinitrotoluene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
diethylphthalate	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
4-chlorophenyl-phenyl ether	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
fluorene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
4-nitroaniline	20.0 ug/l	20 U										
4,6-dinitro-2-methylphenol	20.0 ug/l	20 U										
n-nitrosodiphenylamine (1)	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
4-bromophenyl-phenyl ether	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
hexachlorobenzene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
pentachlorophenol	20.0 ug/l	20 U										
phenanthrene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
anthracene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
di-n-butylphthalate	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
fluoranthene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
pyrene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
butylbenzylphthalate	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
3,3-dichlorobenzidine	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
benzo(a)anthracene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
chrysene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
bis(2-ethylhexyl)phthalate	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	6					
di-n-octylphthalate	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
benzo(b)fluoranthene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
benzo(k)fluoranthene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
benzo(a)pyrene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
indeno(1,2,3-cd)pyrene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
dibenzo(a,h)anthracene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
benzo(g,h,i)perylene	5.0 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					

SAMPLE NUMBER	ECHS0	ECHS1	ECHS2	ECHS3	ECHS4	ECQE2	ECHS5	ECHS6	ECHS7	ECQE3	ECQE4	
DATE SAMPLE COLLECTED	7/6/99	7/6/99	7/6/99	7/6/99	7/6/99	7/7/99	7/7/99	7/7/99	7/7/99	7/7/99	7/7/99	
DESCRIPTION	E. Waterloo	3531	3651	3488	3568	3500	Sam Winer	3539	3553	3547	3271	950 BEY

SAMPLE NUMBER		ECHS0	ECHS1	ECHS2	ECHS3	ECHS4	ECQE2	ECHS5	ECHS6	ECHS7	ECQE3	ECQE4
DATE SAMPLE COLLECTED		7/6/99	7/6/99	7/6/99	7/6/99	7/6/99	7/7/99	7/7/99	7/7/99	7/7/99	7/7/99	7/7/99
DESCRIPTION	E. Waterloo	3531	3651	3488	3568	3500	Sam Winer	3539	3553	3547	3271	950 BEY
TAL METALS/CYANIDE												
aluminum	100 ug/l	200 U										
antimony	5 ug/l	2 U	2 U	2 U	2 U	2 U	2 U					
arsenic	2 ug/l	0.8 U	0.8 U	0.8 U	2.7 U	1.3	0.8 U					
calcium	500 ug/l	91600	106000	113000	112000	116000	23600					
barium	20 ug/l	189	41.5	57.8	72.8	72.1	225					
potassium	750 ug/l	3920	4650	4340	3780	3860	2980					
beryllium	1 ug/l	2 U	2 U	2 U	2 U	2 U	2 U					
magnesium	500 ug/l	19800	27500	26600	28500	29500	5400					
cadmium	1 ug/l	0.2 U										
sodium	500 ug/l	16900	6370	4170	7600	7560	157000					
chromium	10 ug/l	10 U										
cobalt	10 ug/l	10 U										
copper	10 ug/l	7.2	57.3	16.2	6 U	6 U	6 U					
iron	100 ug/l	856	80 U	80 U	567	490	217					
lead	2 ug/l	3	4 U	2 U	2 U	2 U	6					
manganese	10 ug/l	71.2	23.9	93.7	44.7	44.7	36.7					
nickel	20 ug/l	20 U										
selenium	3 ug/l	2 U	2 U	2 U	2 U	2 U	2 U					
silver	10 ug/l	6 U	6 U	7.3	8.5	6 U	6 U					
thallium	10 ug/l	2 U	2 U	2 U	2 U	2 U	2 U					
vanadium	10 ug/l	5 U	5 U	5 U	5 U	5 U	5 U					
zinc	10 ug/l	40 U										
mercury	0.2 ug/l	0.1 U										
cyanide	20 ug/l	8 U	8 U	8 U	8 U	8 U	8 U					

SAMPLE NUMBER	EBB01	EBB02	EBB03	EBB04
DATE SAMPLE COLLECTED	8/4/99 3826 E. Waterloo	8/4/99 3640 E. Waterloo	8/4/99 3640 E. Waterloo	7/29/99 Trip Blank
DESCRIPTION				
VOLATILE ORGANIC COMPOUNDS				
chloromethane	1U	1U	1U	0.6J
bromomethane	1U	1U	1U	1U
vinyl chloride	1U	1U	1U	1U
chloroethane	1U	1U	1U	1U
methylene chloride	2U	2U	2U	3
acetone	5U	5U	5U	5U
carbon disulfide	1U	1U	1U	1U
1,1-dichloroethene	1U	1U	1U	1U
1,1-dichloroethane	1U	1U	1U	1U
cis-1,2-dichloroethene	1U	1U	1U	1U
trans-1,2-dichloroethene	1U	1U	1U	1U
chloroform	1U	1U	1U	1U
1,2-dichloroethane	1U	1U	1U	49E
2-butanone	5U	5U	5U	3J
bromo-chloromethane	1U	1U	1U	1U
1,1,1-trichloroethane	1U	1U	1U	1U
carbon tetrachloride	1U	1U	1U	1U
bromodichloromethane	1U	1U	1U	1U
1,2-dichloropropane	1U	1U	1U	15
cis-1,3-dichloropropene	1U	1U	1U	1U
trichloroethene	1U	1U	1U	1U
dibromochloromethane	1U	1U	1U	1U
1,1,2-trichloroethane	1U	1U	1U	1U
benzene	1U	1U	1U	1U
trans-1,3-dichloropropene	1U	1U	1U	1U
bromoform	1U	1U	1U	1U
4-methyl-2-pentanone	5U	5U	5U	5U
2-hexanone	5U	5U	5U	5U
tetrachloroethene	1U	1U	1U	1U
1,1,2,2-tetrachloroethane	1U	1U	1U	1U
1,2-dibromoethane	1U	1U	1U	1U
toluene	1U	1U	1U	1U
chlorobenzene	1U	1U	1U	1U
ethyl benzene	1U	1U	1U	1U
styrene	1U	1U	1U	1U
xylenes (total)	1U	1U	1U	1U
1,3-dichlorobenzene	1U	1U	1U	1U
1,4-dichlorobenzene	1U	1U	1U	1U
1,2-dichlorobenzene	1U	1U	1U	1U
1,2-dibromo-3-chloropropane	1U	1U	1U	1U
1,2,4-trichlorobenzene	1U	1U	1U	1U

Sam Winer Motors Integrated Assessment
Elevated Geoprobe Ground Water and Soil Results

Sample Number :	ECKC4	ECKC4DL	ECKC5	ECKC6	ECKC7	ECHR4	ECHR4DL	ECQE1
Sampling Location :	SW-GSO-01	SW-GSO-01	SW-GSO-03	SW-GSO-04	SW-GSO-02	SW-GPW-01	SW-GPW-01	SW-GPW-02
Matrix :	Soil	Soil	Soil	Soil	Soil	Water	Water	Water
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/L	ug/L
Date Sampled :	07/06/99	07/06/99	07/06/99	07/07/99	07/06/99	07/06/99	07/06/99	07/07/99
Time Sampled :	11:55	11:55	15:35	10:15	15:25	13:00	13:00	09:00
Dilution Factor :	1.0	10.0	1.0	1.0	1.0	2.0	2.0	1.0
Volatile Compound	Result Flag	Result la	Result Flag	Result Flag				
VINYL CHLORIDE						1200		
METHYLENE CHLORIDE	8500	10000 J	13 J	370 J	13 J	120000	88000	
ACETONE	7200 J	26000 J	4 J		4 J		160000 J	
CARBON DISULFIDE								
1,1-DICHLOROETHENE	480 J					2200		
1,1-DICHLOROETHANE	2100 J	2800 J				12000		
CHLOROFORM						1500		
1,2-DICHLOROETHANE	1200 J					12000	13000	
2-BUTANONE			7 J		10 J	10000		
1,1,1-TRICHLOROETHANE	71000	71000				400000	200000	
CARBON TETRACHLORIDE	7300							
TRICHLOROETHENE	40000	43000	1 J			210000	130000	
BENZENE	450 J			1000 J		2400		
4-METHYL-2-PENTANONE						11000	26000	
TETRACHLOROETHENE	4600	5000 J				20000	16000	
TOLUENE	160000 J	180000 J	8 J	160 J	5 J	580000	460000	
CHLOROBENZENE	500 J					2100		
ETHYLBENZENE	24000 J	27000 J	2 J	3300 J	3 J	65000	67000	
STYRENE	8200 J	8900 J					22000	
XYLENE (TOTAL)	110000 J	120000 J	10 J	1900 J	9 J	300000	320000	

Sam Winer Motors Integrated Assessment
Elevated Geoprobe Ground Water and Soil Results

Sample Number :	ECKC4	ECKC4DL	ECKC5	ECKC6	ECKC6DL	ECKC7
Sampling Location :	SW-GSO-01	SW-GSO-01	SW-GSO-03	SW-GSO-04	SW-GSO-04	SW-GSO-02
Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Date Sampled :	07/06/1999	07/06/1999	07/06/1999	07/07/1999	07/07/1999	07/06/1999
Time Sampled :	11:55	11:55	15:35	10:15	10:15	15:25
Dilution Factor :	10.0	100.0	1.0	1.0	5.0	1.0
Semivolatile Compound	Result Flag					
PHENOL	8100 J					
1, 4-DICHLOROBENZENE	18000 J					
1, 2-DICHLOROBENZENE	170000	160000 J				
ISOPHORONE	15000 J					
1, 2, 4-TRICHLOROBENZENE	8800 J					
NAPHTHALENE			130 J	2200	2300	230 J
2-METHYLNAPHTHALENE			130 J	6500	7300	230 J
ACENAPHTHYLENE						36 J
ACENAPHTHENE			25 J	550	280 J	34 J
DIBENZOFURAN			40 J			60 J
FLUORENE			52 J	570	1000 J	90 J
N-NITROSODIPHENYLAMINE	200000	300000		1100	1600 J	
PHENANTHRENE			380	2300	2800	620
ANTHRACENE			90 J	210 J	220 J	150 J
CARBAZOLE			29 J			50 J
DI-N-BUTYLPHTHALATE	16000 J					
FLUORANTHENE			450	100 J	120 J	960
PYRENE	6200 J		390	310 J	280 J	810
BENZO(A) ANTHRACENE			230 J	24 J		510
CHRYSENE			230 J	29 J		510
BIS(2-ETHYLHEXYL) PHTHALATE	300000	400000				
BENZO(B) FLUORANTHENE			190 J			390 J
BENZO(K) FLUORANTHENE			200 J			450
BENZO(A) PYRENE			170 J			410
INDENO(1, 2, 3-CD) PYRENE			120 J			310 J
DIBENZ(A, H) ANTHRACENE						130 J
BENZO(G, H, I) PERYLENE			39 J			98 J

Sam Winer Motors Integrated Assessment
Elevated Geoprobe Soil and Ground Water Results

Sample Number :	ECKC4	ECKC4DL	ECKC5	ECKC6	ECKC7
Sampling Location :	SW-GSO-01	SW-GSO-01	SW-GSO-03	SW-GSO-04	SW-GSO-02
Matrix :	Soil	Soil	Soil	Soil	Soil
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Date Sampled :	07/06/1999	07/06/1999	07/06/1999	07/07/1999	07/06/1999
Time Sampled :	11:55	11:55	15:35	10:15	15:25
%Moisture :	19	19	13	19	17
pH :	10.0	10.0	8.6	8.3	8.0
Dilution Factor :	1.0	10.0	1.0	1.0	1.0
Pesticide/PCB Compound	Result Flag				
ALPHA-BHC				0.88 J	
DELTA-BHC	0.51 J				
HEPTACHLOR		19 J			
4,4'-DDE	150 J	200 J			
ENDRIN	24 J				
ENDOSULFAN II		16 J			
4,4'-DDD	5.2 J	9.2 J			
ENDRIN KETONE		5.7 J	1.3 J		1.1 J
ENDRIN ALDEHYDE		21 J			
ALPHA-CHLORDANE	57 J	78			
GAMMA-CHLORDANE	80 J	81 J			
AROCLOR-1254	460 J	700 J			
AROCLOR-1260	520	940 J		32 J	

Sam Winer Motors Inegrated Assessment
Geoprobe Soil Results

Sample Number :	MEBSE4	MEBSE5	MEBSE6	MEBSE7
Sampling Location	SW-GSO-01	SW-GSO-03	SW-GSO-04	SW-GSO-02
Matrix :	Soil	Soil	Soil	Soil
Units :	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Date Sampled :	07/06/1999	07/06/1999	07/06/1999	07/06/1999
Time Sampled :	11:55	15:35	10:15	15:25
%Solids :	83.3	77.8	82.9	82.4
Dilution Factor :	1.0	1.0	1.0	1.0
ANALYTE	Result Flag	Result Flag	Result Flag	Result Flag
ALUMINUM	8100	10500	8570	11600
ANTIMONY	0.69 R	0.77 R	0.69 R	2.6 J
ARSENIC	8.2 J	11.7 J	12.1 J	11.0 J
BARIUM	206 J	97.7 J	77.6 J	79.7 J
BERYLLIUM	0.39	0.74	0.60	0.59
CADMIUM	0.25	0.13 U	0.11 U	0.12 U
CALCIUM	49200 J	3690 J	5360 J	7690 J
CHROMIUM	37.8 J	13.6 J	12.4 J	16.0 J
COBALT	6.5	10.1	8.5	7.2
COPPER	20.8	20.6	19.9	21.3
IRON	18200 J	23100 J	24400 J	25100 J
LEAD	37.2 J	26.6 J	17.8 J	21.5 J
MAGNESIUM	3780 J	1990 J	1950 J	2640 J
MANGANESE	955 J	985 J	448 J	827 J
MERCURY	0.12 J	0.060 U	0.060 U	0.060 U
NICKEL	14.5	14.7	19.3	14.0
POTASSIUM	796	968	982	919
SELENIUM	1.7 J	1.9 J	1.9 J	2.8
SILVER	0.62 J	1.1 J	1.1 J	1.3 J
SODIUM	329	237	174	232
THALLIUM	1.1	1.3	1.2	1.2
VANADIUM	18.4 J	23.3 J	20.6 J	22.3 J
ZINC	73.9 J	71.0 J	65.6 J	59.6 J
CYANIDE	0.090 J	0.18 J	0.050 UJ	0.33 J

APPENDIX C

OhioEPA
State of Ohio Environmental Protection Agency
Northeast District Office

2110 E. Aurora Road
Twinsburg, Ohio 44087-1969

TELE (330) 425-9171 FAX (330) 487-0769

Bob Taft, Governor
Christopher Jones, Director

May 22, 2000

RE: Sam Winer's Motors
Springfield Township
IA Report

Non-Responsive



Dear Non-Responsive:

As per my phone call on September 14, 1999, I have enclosed a copy of the laboratory data sheets with the results of the analysis of a water sample collected from the water well located at [redacted]. Bill Batten and I collected this sample on July 6, 1999 and advised you of the results on September 14, 1999. The water was analyzed for Volatile Organic Compounds (VOCs).

No VOCs were detected above the detection limits in the sample collected from your well.

If you have any questions or concerns about the quality of your drinking water, please contact Boyd Marsh, Health Commissioner, at the Summit County Health Department (330-932-4891) or Robert Frey at the Ohio Department of Health (614) 466-1069. If you have any further questions, please feel free to contact me at (330) 963-1207.

Sincerely,



Vicki Deppisch
Project Coordinator
Division of Emergency and Remedial Response

VD:bo

enclosures

cc: Bob Princic, NEDO/DERR
Conni McCambridge, NEDO/DDGW
Bill Batten, CDO/SIFU
Boyd Marsh, Summit County Health Department
Robert Frey, Ohio Department of Health
IA Report
DERR Files - Kathy

OhioEPA
State of Ohio Environmental Protection Agency
Northeast District Office

2110 E. Aurora Road
Twinsburg, Ohio 44087-1969

TELE (330) 425-9171 FAX (330) 487-0769

Bob Taft, Governor
Christopher Jones, Director

May 23, 2000

RE: Sam Winer's Motors
Springfield Township
IA Report

Non-Responsive



Dear Non-

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Sincerely,



Vicki Deppisch
Project Coordinator
Division of Emergency and Remedial Response

VD:bo

enclosures

cc: Bob Princic, NEDO/DERR
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2110 E. Aurora Road
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Bob Taft, Governor
Christopher Jones, Director

May 23, 2000

RE: Sam Winer's Motors
Springfield Township
IA Report

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[REDACTED]

[REDACTED]

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RE: Sam Winer's Motors
Springfield Township
IA Report

Mr. Robert Zitzer
Sam Winer's Motors, Inc.
3417 East Waterloo Road
Akron, Ohio 44312

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~~E Waterloo Rd & Maplewood Station Park East well~~ 1LCA EPA SAMPLE NO.
 3313
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

ECQE3

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: SDG No.: ECHS0

Lab Sample ID: 5325.011 Date Received: 07/09/99

Lab File ID: E0703 Date Analyzed: 07/09/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3-----	Chloromethane	1	U
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene chloride	2	U
67-64-1-----	Acetone	5	U
75-15-0-----	Carbon disulfide	1	U
75-35-4-----	1,1-Dichloroethene	1	U
75-34-3-----	1,1-Dichloroethane	1	U
156-59-2-----	cis-1,2-Dichloroethene	1	U
156-60-5-----	trans-1,2-Dichloroethene	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
78-93-3-----	2-Butanone	5	U
74-97-5-----	Bromochloromethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon tetrachloride	1	U
75-27-4-----	Bromodichloromethane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	1	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	1	U
10061-02-6-----	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromoform	1	U
108-10-1-----	4-Methyl-2-pentanone	5	U
591-78-6-----	2-Hexanone	5	U
127-18-4-----	Tetrachloroethene	1	U
79-34-5-----	1,1,2,2-Tetrachloroethane	1	U
106-93-4-----	1,2-Dibromoethane	1	U
108-88-3-----	Toluene	1	U
108-90-7-----	Chlorobenzene	1	U
100-41-4-----	Ethylbenzene	1	U
100-42-5-----	Styrene	1	U
1330-20-7-----	Xylenes (total)	1	U
541-73-1-----	1,3-Dichlorobenzene	1	U
106-46-7-----	1,4-Dichlorobenzene	1	U
95-50-1-----	1,2-Dichlorobenzene	1	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1	U
120-82-1-----	1,2,4-Trichlorobenzene	1	U

1LCE
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ECQE3

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.011 Date Received: 07/09/99

Lab File ID: E0703 Date Analyzed: 07/09/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

VALUE - when if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

- U** Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.
- R** Indicates the data are unusable. (NOTE: The analyte may or may not be present.)
- N** Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.
- P** Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.
- C** Indicates pesticide results that have been confirmed by GC/MS.
- B** Indicates the analyte is detected in the associated blank as well as in the sample.
- E** Indicates compounds whose concentrations exceed the calibration range of the instrument.
- D** Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
- A** Indicates tentatively identified compounds that are suspected to be aldol condensation products.
- G** Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
- L** Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.
- T** Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.

~~3313~~ E Waterloo Rd & Maplewood Shallow Park East well
1LCA EPA SAMPLE NO.
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

ECQE3

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.011 Date Received: 07/09/99

Lab File ID: E0703 Date Analyzed: 07/09/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (μ g/L)	Q
74-87-3-----	Chloromethane	1	U
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene chloride	2	U
67-64-1-----	Acetone	5	U
75-15-0-----	Carbon disulfide	1	U
75-35-4-----	1,1-Dichloroethene	1	U
75-34-3-----	1,1-Dichloroethane	1	U
156-59-2-----	cis-1,2-Dichloroethene	1	U
156-60-5-----	trans-1,2-Dichloroethene	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
78-93-3-----	2-Butanone	5	U
74-97-5-----	Bromochloromethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon tetrachloride	1	U
75-27-4-----	Bromodichloromethane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	1	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	1	U
10061-02-6-----	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromoform	1	U
108-10-1-----	4-Methyl-2-pentanone	5	U
591-78-6-----	2-Hexanone	5	U
127-18-4-----	Tetrachloroethene	1	U
79-34-5-----	1,1,2,2-Tetrachloroethane	1	U
106-93-4-----	1,2-Dibromoethane	1	U
108-88-3-----	Toluene	1	U
108-90-7-----	Chlorobenzene	1	U
100-41-4-----	Ethylbenzene	1	U
100-42-5-----	Styrene	1	U
1330-20-7-----	Xylenes (total)	1	U
541-73-1-----	1,3-Dichlorobenzene	1	U
106-46-7-----	1,4-Dichlorobenzene	1	U
95-50-1-----	1,2-Dichlorobenzene	1	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1	U
120-82-1-----	1,2,4-Trichlorobenzene	1	U

1LCE
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.011 Date Received: 07/09/99

Lab File ID: E0703 Date Analyzed: 07/09/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.				
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For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

VALUE - when if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

- U** Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.
- R** Indicates the data are unusable. (NOTE: The analyte may or may not be present.)
- N** Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.
- P** Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.
- C** Indicates pesticide results that have been confirmed by GC/MS.
- B** Indicates the analyte is detected in the associated blank as well as in the sample.
- E** Indicates compounds whose concentrations exceed the calibration range of the instrument.
- D** Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
- A** Indicates tentatively identified compounds that are suspected to be aldol condensation products.
- G** Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
- L** Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.
- T** Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.

3417 E. Wadsworth (Sam Weir's Well)

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

ECQE2

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27176

SAS No.: _____

SDG No.: ECHSO

Lab Sample ID: 5325.003

Date Received: 07/09/99

Lab File ID: E0695

Date Analyzed: 07/09/99

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
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74-87-3-----	Chloromethane	1	U
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene chloride	2	U
67-64-1-----	Acetone	5	U
75-15-0-----	Carbon disulfide	0.6	J
75-35-4-----	1,1-Dichloroethene	1	U
75-34-3-----	1,1-Dichloroethane	1	U
156-59-2-----	cis-1,2-Dichloroethene	1	U
156-60-5-----	trans-1,2-Dichloroethene	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
78-93-3-----	2-Butanone	5	U
74-97-5-----	Bromochloromethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon tetrachloride	1	U
75-27-4-----	Bromodichloromethane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	1	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	1	U
10061-02-6-----	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromoform	1	U
108-10-1-----	4-Methyl-2-pentanone	5	U
591-78-6-----	2-Hexanone	5	U
127-18-4-----	Tetrachloroethene	1	U
79-34-5-----	1,1,2,2-Tetrachloroethane	1	U
106-93-4-----	1,2-Dibromoethane	1	U
108-88-3-----	Toluene	1	U
108-90-7-----	Chlorobenzene	1	U
100-41-4-----	Ethylbenzene	1	U
100-42-5-----	Styrene	1	U
1330-20-7-----	Xylenes (total)	1	U
541-73-1-----	1,3-Dichlorobenzene	1	U
106-46-7-----	1,4-Dichlorobenzene	1	U
95-50-1-----	1,2-Dichlorobenzene	1	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1	U
120-82-1-----	1,2,4-Trichlorobenzene	1	U

1LCE
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ECQE2

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.003 Date Received: 07/09/99

Lab File ID: E0695 Date Analyzed: 07/09/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.				
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LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ECQE2

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27176

SAS No.:

SDG No.: ECHSO

Lab Sample ID: 5325.003

Date Received: 07/09/99

Lab File ID: D7233

Date Extracted: 07/09/99

Sample Volume: 1000 (mL)

Date Analyzed: 07/14/99

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5-----	2,4-Dinitrophenol	20	U
100-02-7-----	4-Nitrophenol	20	U
132-64-9-----	Dibenzofuran	5	U
121-14-2-----	2,4-Dinitrotoluene	5	U
84-66-2-----	Diethylphthalate	5	U
7005-72-3-----	4-Chlorophenyl-phenylether	5	U
86-73-7-----	Fluorene	5	U
100-01-6-----	4-Nitroaniline	20	U
534-52-1-----	4,6-Dinitro-2-methylphenol	20	U
86-30-6-----	N-Nitrosodiphenylamine (1)	5	U
101-55-3-----	4-Bromophenyl-phenylether	5	U
118-74-1-----	Hexachlorobenzene	5	U
87-86-5-----	Pentachlorophenol	20	U
85-01-8-----	Phenanthrene	5	U
120-12-7-----	Anthracene	5	U
84-74-2-----	Di-n-butylphthalate	5	U
206-44-0-----	Fluoranthene	5	U
129-00-0-----	Pyrene	5	U
85-68-7-----	Butylbenzylphthalate	5	U
91-94-1-----	3,3'-Dichlorobenzidine	5	U
56-55-3-----	Benzo(a)anthracene	5	U
218-01-9-----	Chrysene	5	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	5	U
117-84-0-----	Di-n-octylphthalate	5	U
205-99-2-----	Benzo(b)fluoranthene	5	U
207-08-9-----	Benzo(k)fluoranthene	5	U
50-32-8-----	Benzo(a)pyrene	5	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	5	U
53-70-3-----	Dibenz(a,h)anthracene	5	U
191-24-2-----	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ECQE2

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27176

SAS No.: _____

SDG No.: ECHSO

Lab Sample ID: 5325.003

Date Received: 07/09/99

Lab File ID: D7233

Date Extracted: 07/09/99

Sample Volume: 1000 (mL)

Date Analyzed: 07/14/99

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2-----	Phenol _____	5	U
111-44-4-----	bis(2-Chloroethyl)ether _____	5	U
95-57-8-----	2-Chlorophenol _____	5	U
95-48-7-----	2-Methylphenol _____	5	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5-----	4-Methylphenol _____	5	U
621-64-7-----	N-Nitroso-di-n-propylamine _____	5	U
67-72-1-----	Hexachloroethane _____	5	U
98-95-3-----	Nitrobenzene _____	5	U
78-59-1-----	Isophorone _____	5	U
88-75-5-----	2-Nitrophenol _____	5	U
105-67-9-----	2,4-Dimethylphenol _____	5	U
111-91-1-----	bis(2-Chloroethoxy)methane _____	5	U
120-83-2-----	2,4-Dichlorophenol _____	5	U
91-20-3-----	Naphthalene _____	5	U
106-47-8-----	4-Chloroaniline _____	5	U
87-68-3-----	Hexachlorobutadiene _____	5	U
59-50-7-----	4-Chloro-3-methylphenol _____	5	U
91-57-6-----	2-Methylnaphthalene _____	5	U
77-47-4-----	Hexachlorocyclopentadiene _____	5	U
88-06-2-----	2,4,6-Trichlorophenol _____	5	U
95-95-4-----	2,4,5-Trichlorophenol _____	20	U
91-58-7-----	2-Chloronaphthalene _____	5	U
88-74-4-----	2-Nitroaniline _____	20	U
131-11-3-----	Dimethylphthalate _____	5	U
208-96-8-----	Acenaphthylene _____	5	U
606-20-2-----	2,6-Dintrotoluene _____	5	U
99-09-2-----	3-Nitroaniline _____	20	U
83-32-9-----	Acenaphthene _____	5	U

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

ECQE2

Lab Code: PDP Case No.: 27176 SAS No.: SDG No.: ECHS0

Lab Sample ID: 5325.003 Date Received: 07/09/99

Sample Volume: 1000.00 (mL) Date Extracted: 07/09/99

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 07/16/99

Injection Volume: 2 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6-----	alpha-BHC	0.010	U
319-85-7-----	beta-BHC	0.010	U
319-86-8-----	delta-BHC	0.010	U
58-89-9-----	gamma-BHC (Lindane)	0.010	U
76-44-8-----	Heptachlor	0.010	U
309-00-2-----	Aldrin	0.010	U
1024-57-3-----	Heptachlor epoxide	0.010	U
959-98-8-----	Endosulfan I	0.010	U
60-57-1-----	Dieldrin	0.020	U
72-55-9-----	4,4'-DDE	0.020	U
72-20-8-----	Endrin	0.020	U
33213-65-9-----	Endosulfan II	0.020	U
72-54-8-----	4,4'-DDD	0.020	U
1031-07-8-----	Endosulfan sulfate	0.020	U
50-29-3-----	4,4'-DDT	0.020	U
72-43-5-----	Methoxychlor	0.100	U
53494-70-5-----	Endrin ketone	0.020	U
7421-36-3-----	Endrin aldehyde	0.020	U
5103-71-9-----	alpha-Chlordane	0.010	U
12789-03-6-----	gamma-Chlordane	0.010	U
8001-35-2-----	Toxaphene	1.000	U
12674-11-2-----	Aroclor-1016	0.200	U
1104-28-2-----	Aroclor-1221	0.400	U
11141-16-5-----	Aroclor-1232	0.200	U
53469-21-9-----	Aroclor-1242	0.200	U
12672-29-6-----	Aroclor-1248	0.200	U
11097-69-1-----	Aroclor-1254	0.200	U
11096-82-5-----	Aroclor-1260	0.200	U

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

ECQE2

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.003 Date Received: 07/09/99

Lab File ID: D7233 Date Extracted: 07/09/99

Sample Volume: 1000 (mL) Date Analyzed: 07/14/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.				
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ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

VALUE • when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

- U** Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.
- R** Indicates the data are unusable. (NOTE: The analyte may or may not be present.)
- N** Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.
- P** Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.
- C** Indicates pesticide results that have been confirmed by GC/MS.
- B** Indicates the analyte is detected in the associated blank as well as in the sample.
- E** Indicates compounds whose concentrations exceed the calibration range of the instrument.
- D** Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
- A** Indicates tentatively identified compounds that are suspected to be aldol condensation products.
- G** Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
- L** Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.
- T** Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.

3488 E Waterloo Rd

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

ECHS2

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: SDG No.: ECHS0

Lab Sample ID: 5325.002 Date Received: 07/09/99

Lab File ID: E0694 Date Analyzed: 07/09/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3-----	Chloromethane	1	U
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene chloride	2	U
67-64-1-----	Acetone	5	U
75-15-0-----	Carbon disulfide	1	U
75-35-4-----	1,1-Dichloroethene	1	U
75-34-3-----	1,1-Dichloroethane	1	U
156-59-2-----	cis-1,2-Dichloroethene	1	U
156-60-5-----	trans-1,2-Dichloroethene	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
78-93-3-----	2-Butanone	5	U
74-97-5-----	Bromochloromethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon tetrachloride	1	U
75-27-4-----	Bromodichloromethane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	1	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	1	U
10061-02-6-----	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromoform	1	U
108-10-1-----	4-Methyl-2-pentanone	5	U
591-78-6-----	2-Hexanone	5	U
127-18-4-----	Tetrachloroethene	1	U
79-34-5-----	1,1,2,2-Tetrachloroethane	1	U
106-93-4-----	1,2-Dibromoethane	1	U
108-88-3-----	Toluene	1	U
108-90-7-----	Chlorobenzene	1	U
100-41-4-----	Ethylbenzene	1	U
100-42-5-----	Styrene	1	U
1330-20-7-----	Xylenes (total)	1	U
541-73-1-----	1,3-Dichlorobenzene	1	U
106-46-7-----	1,4-Dichlorobenzene	1	U
95-50-1-----	1,2-Dichlorobenzene	1	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1	U
120-82-1-----	1,2,4-Trichlorobenzene	1	U

1LCD
LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

ECHS2

Lab Code: PDP Case No.: 27176 SAS No.: SDG No.: ECHS0

Lab Sample ID: 5325.002 Date Received: 07/09/99

Sample Volume: 1000.00 (mL) Date Extracted: 07/09/99

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 07/16/99

Injection Volume: 2 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6-----	alpha-BHC	0.010	U
319-85-7-----	beta-BHC	0.010	U
319-86-8-----	delta-BHC	0.010	U
58-89-9-----	gamma-BHC (Lindane)	0.010	U
76-44-8-----	Heptachlor	0.010	U
309-00-2-----	Aldrin	0.010	U
1024-57-3-----	Heptachlor epoxide	0.010	U
959-98-8-----	Endosulfan I	0.010	U
60-57-1-----	Dieldrin	0.020	U
72-55-9-----	4,4'-DDE	0.020	U
72-20-8-----	Endrin	0.020	U
33213-65-9-----	Endosulfan II	0.020	U
72-54-8-----	4,4'-DDD	0.020	U
1031-07-8-----	Endosulfan sulfate	0.020	U
50-29-3-----	4,4'-DDT	0.020	U
72-43-5-----	Methoxychlor	0.100	U
53494-70-5-----	Endrin ketone	0.020	U
7421-36-3-----	Endrin aldehyde	0.020	U
5103-71-9-----	alpha-Chlordane	0.010	U
12789-03-6-----	gamma-Chlordane	0.010	U
8001-35-2-----	Toxaphene	1.000	U
12674-11-2-----	Aroclor-1016	0.200	U
1104-28-2-----	Aroclor-1221	0.400	U
11141-16-5-----	Aroclor-1232	0.200	U
53469-21-9-----	Aroclor-1242	0.200	U
12672-29-6-----	Aroclor-1248	0.200	U
11097-69-1-----	Aroclor-1254	0.200	U
11096-82-5-----	Aroclor-1260	0.200	U

1LCE

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.002 Date Received: 07/09/99

Lab File ID: E0694 Date Analyzed: 07/09/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

1LCB

EPA SAMPLE NO.

ECHS2

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.002 Date Received: 07/09/99

Lab File ID: D7232 Date Extracted: 07/09/99

Sample Volume: 1000 (mL) Date Analyzed: 07/14/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2-----	Phenol _____	5 U	
111-44-4-----	bis(2-Chloroethyl)ether _____	5 U	
95-57-8-----	2-Chlorophenol _____	5 U	
95-48-7-----	2-Methylphenol _____	5 U	
108-60-1-----	2,2'-oxybis(1-Chloropropane) _____	5 U	
106-44-5-----	4-Methylphenol _____	5 U	
621-64-7-----	N-Nitroso-di-n-propylamine _____	5 U	
67-72-1-----	Hexachloroethane _____	5 U	
98-95-3-----	Nitrobenzene _____	5 U	
78-59-1-----	Isophorone _____	5 U	
88-75-5-----	2-Nitrophenol _____	5 U	
105-67-9-----	2,4-Dimethylphenol _____	5 U	
111-91-1-----	bis(2-Chloroethoxy)methane _____	5 U	
120-83-2-----	2,4-Dichlorophenol _____	5 U	
91-20-3-----	Naphthalene _____	5 U	
106-47-8-----	4-Chloroaniline _____	5 U	
87-68-3-----	Hexachlorobutadiene _____	5 U	
59-50-7-----	4-Chloro-3-methylphenol _____	5 U	
91-57-6-----	2-Methylnaphthalene _____	5 U	
77-47-4-----	Hexachlorocyclopentadiene _____	5 U	
88-06-2-----	2,4,6-Trichlorophenol _____	5 U	
95-95-4-----	2,4,5-Trichlorophenol _____	20 U	
91-58-7-----	2-Chloronaphthalane _____	5 U	
88-74-4-----	2-Nitroaniline _____	20 U	
131-11-3-----	Dimethylphthalate _____	5 U	
208-96-8-----	Acenaphthylene _____	5 U	
606-20-2-----	2,6-Dintrotoluene _____	5 U	
99-09-2-----	3-Nitroaniline _____	20 U	
83-32-9-----	Acenaphthene _____	5 U	

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

ECHS1

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.001 Date Received: 07/09/99

Lab File ID: D7231 Date Extracted: 07/09/99

Sample Volume: 1000 (mL) Date Analyzed: 07/14/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

1LCC

EPA SAMPLE NO.

ECHS2

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27176

SAS No.:

SDG No.: ECHS0

Lab Sample ID: 5325.002

Date Received: 07/09/99

Lab File ID: D7232

Date Extracted: 07/09/99

Sample Volume: 1000 (mL)

Date Analyzed: 07/14/99

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5-----	2,4-Dinitrophenol	20	U
100-02-7-----	4-Nitrophenol	20	U
132-64-9-----	Dibenzofuran	5	U
121-14-2-----	2,4-Dinitrotoluene	5	U
84-66-2-----	Diethylphthalate	5	U
7005-72-3-----	4-Chlorophenyl-phenylether	5	U
86-73-7-----	Fluorene	5	U
100-01-6-----	4-Nitroaniline	20	U
534-52-1-----	4,6-Dinitro-2-methylphenol	20	U
86-30-6-----	N-Nitrosodiphenylamine (1)	5	U
101-55-3-----	4-Bromophenyl-phenylether	5	U
118-74-1-----	Hexachlorobenzene	5	U
87-86-5-----	Pentachlorophenol	20	U
85-01-8-----	Phenanthrene	5	U
120-12-7-----	Anthracene	5	U
84-74-2-----	Di-n-butylphthalate	5	U
206-44-0-----	Fluoranthene	5	U
129-00-0-----	Pyrene	5	U
85-68-7-----	Butylbenzylphthalate	5	U
91-94-1-----	3,3'-Dichlorobenzidine	5	U
56-55-3-----	Benzo(a)anthracene	5	U
218-01-9-----	Chrysene	5	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	5	U
117-84-0-----	Di-n-octylphthalate	5	U
205-99-2-----	Benzo(b)fluoranthene	5	U
207-08-9-----	Benzo(k)fluoranthene	5	U
50-32-8-----	Benzo(a)pyrene	5	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	5	U
53-70-3-----	Dibenz(a,h)anthracene	5	U
191-24-2-----	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

ECHS2

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.002 Date Received: 07/09/99

Lab File ID: D7232 Date Extracted: 07/09/99

Sample Volume: 1000 (mL) Date Analyzed: 07/14/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.				
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For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

VALUE - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

- U** Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.
- R** Indicates the data are unusable. (NOTE: The analyte may or may not be present.)
- N** Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.
- P** Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.
- C** Indicates pesticide results that have been confirmed by GC/MS.
- B** Indicates the analyte is detected in the associated blank as well as in the sample.
- E** Indicates compounds whose concentrations exceed the calibration range of the instrument.
- D** Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
- A** Indicates tentatively identified compounds that are suspected to be aldol condensation products.
- G** Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
- L** Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.
- T** Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.

3488 E Waterloo Rd

ILCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

ECHS2

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: SDG No.: ECHS0

Lab Sample ID: 5325.002 Date Received: 07/09/99

Lab File ID: E0694 Date Analyzed: 07/09/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
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74-87-3-----	Chloromethane	1	U
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene chloride	2	U
67-64-1-----	Acetone	5	U
75-15-0-----	Carbon disulfide	1	U
75-35-4-----	1,1-Dichloroethene	1	U
75-34-3-----	1,1-Dichloroethane	1	U
156-59-2-----	cis-1,2-Dichloroethene	1	U
156-60-5-----	trans-1,2-Dichloroethene	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
78-93-3-----	2-Butanone	5	U
74-97-5-----	Bromochloromethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon tetrachloride	1	U
75-27-4-----	Bromodichloromethane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	1	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	1	U
10061-02-6-----	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromoform	1	U
108-10-1-----	4-Methyl-2-pentanone	5	U
591-78-6-----	2-Hexanone	5	U
127-18-4-----	Tetrachloroethene	1	U
79-34-5-----	1,1,2,2-Tetrachloroethane	1	U
106-93-4-----	1,2-Dibromoethane	1	U
108-88-3-----	Toluene	1	U
108-90-7-----	Chlorobenzene	1	U
100-41-4-----	Ethylbenzene	1	U
100-42-5-----	Styrene	1	U
1330-20-7-----	Xylenes (total)	1	U
541-73-1-----	1,3-Dichlorobenzene	1	U
106-46-7-----	1,4-Dichlorobenzene	1	U
95-50-1-----	1,2-Dichlorobenzene	1	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1	U
120-82-1-----	1,2,4-Trichlorobenzene	1	U

1LCD
LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

ECHS2

Lab Code: PDP Case No.: 27176 SAS No.: SDG No.: ECHS0

Lab Sample ID: 5325.002 Date Received: 07/09/99

Sample Volume: 1000.00 (mL) Date Extracted: 07/09/99

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 07/16/99

Injection Volume: 2 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6-----	alpha-BHC	0.010	U
319-85-7-----	beta-BHC	0.010	U
319-86-8-----	delta-BHC	0.010	U
58-89-9-----	gamma-BHC (Lindane)	0.010	U
76-44-8-----	Heptachlor	0.010	U
309-00-2-----	Aldrin	0.010	U
1024-57-3-----	Heptachlor epoxide	0.010	U
959-98-8-----	Endosulfan I	0.010	U
60-57-1-----	Dieldrin	0.020	U
72-55-9-----	4,4'-DDE	0.020	U
72-20-8-----	Endrin	0.020	U
33213-65-9-----	Endosulfan II	0.020	U
72-54-8-----	4,4'-DDD	0.020	U
1031-07-8-----	Endosulfan sulfate	0.020	U
50-29-3-----	4,4'-DDT	0.020	U
72-43-5-----	Methoxychlor	0.100	U
53494-70-5-----	Endrin ketone	0.020	U
7421-36-3-----	Endrin aldehyde	0.020	U
5103-71-9-----	alpha-Chlordane	0.010	U
12789-03-6-----	gamma-Chlordane	0.010	U
8001-35-2-----	Toxaphene	1.000	U
12674-11-2-----	Aroclor-1016	0.200	U
1104-28-2-----	Aroclor-1221	0.400	U
11141-16-5-----	Aroclor-1232	0.200	U
53469-21-9-----	Aroclor-1242	0.200	U
12672-29-6-----	Aroclor-1248	0.200	U
11097-69-1-----	Aroclor-1254	0.200	U
11096-82-5-----	Aroclor-1260	0.200	U

1LCE

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.002 Date Received: 07/09/99

Lab File ID: E0694 Date Analyzed: 07/09/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ECHS2

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.002 Date Received: 07/09/99

Lab File ID: D7232 Date Extracted: 07/09/99

Sample Volume: 1000 (mL) Date Analyzed: 07/14/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2-----	Phenol	5	U
111-44-4-----	bis(2-Chloroethyl)ether	5	U
95-57-8-----	2-Chlorophenol	5	U
95-48-7-----	2-Methylphenol	5	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5-----	4-Methylphenol	5	U
621-64-7-----	N-Nitroso-di-n-propylamine	5	U
67-72-1-----	Hexachloroethane	5	U
98-95-3-----	Nitrobenzene	5	U
78-59-1-----	Isophorone	5	U
88-75-5-----	2-Nitrophenol	5	U
105-67-9-----	2,4-Dimethylphenol	5	U
111-91-1-----	bis(2-Chloroethoxy)methane	5	U
120-83-2-----	2,4-Dichlorophenol	5	U
91-20-3-----	Naphthalene	5	U
106-47-8-----	4-Chloroaniline	5	U
87-68-3-----	Hexachlorobutadiene	5	U
59-50-7-----	4-Chloro-3-methylphenol	5	U
91-57-6-----	2-Methylnaphthalene	5	U
77-47-4-----	Hexachlorocyclopentadiene	5	U
88-06-2-----	2,4,6-Trichlorophenol	5	U
95-95-4-----	2,4,5-Trichlorophenol	20	U
91-58-7-----	2-Chloronaphthalene	5	U
88-74-4-----	2-Nitroaniline	20	U
131-11-3-----	Dimethylphthalate	5	U
208-96-8-----	Acenaphthylene	5	U
606-20-2-----	2,6-Dintrotoluene	5	U
99-09-2-----	3-Nitroaniline	20	U
83-32-9-----	Acenaphthene	5	U

1LCF

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

ECHS1

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.001 Date Received: 07/09/99

Lab File ID: D7231 Date Extracted: 07/09/99

Sample Volume: 1000 (mL) Date Analyzed: 07/14/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

1LCC

EPA SAMPLE NO.

ECHS2

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.002 Date Received: 07/09/99

Lab File ID: D7232 Date Extracted: 07/09/99

Sample Volume: 1000 (mL) Date Analyzed: 07/14/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5-----	2,4-Dinitrophenol _____	20	U
100-02-7-----	4-Nitrophenol _____	20	U
132-64-9-----	Dibenzofuran _____	5	U
121-14-2-----	2,4-Dinitrotoluene _____	5	U
84-66-2-----	Diethylphthalate _____	5	U
7005-72-3-----	4-Chlorophenyl-phenylether _____	5	U
86-73-7-----	Fluorene _____	5	U
100-01-6-----	4-Nitroaniline _____	20	U
534-52-1-----	4,6-Dinitro-2-methylphenol _____	20	U
86-30-6-----	N-Nitrosodiphenylamine (1) _____	5	U
101-55-3-----	4-Bromophenyl-phenylether _____	5	U
118-74-1-----	Hexachlorobenzene _____	5	U
87-86-5-----	Pentachlorophenol _____	20	U
85-01-8-----	Phenanthrene _____	5	U
120-12-7-----	Anthracene _____	5	U
84-74-2-----	Di-n-butylphthalate _____	5	U
206-44-0-----	Fluoranthene _____	5	U
129-00-0-----	Pyrene _____	5	U
85-68-7-----	Butylbenzylphthalate _____	5	U
91-94-1-----	3,3'-Dichlorobenzidine _____	5	U
56-55-3-----	Benzo(a)anthracene _____	5	U
218-01-9-----	Chrysene _____	5	U
117-81-7-----	bis(2-Ethylhexyl)phthalate _____	5	U
117-84-0-----	Di-n-octylphthalate _____	5	U
205-99-2-----	Benzo(b)fluoranthene _____	5	U
207-08-9-----	Benzo(k)fluoranthene _____	5	U
50-32-8-----	Benzo(a)pyrene _____	5	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene _____	5	U
53-70-3-----	Dibenz(a,h)anthracene _____	5	U
191-24-2-----	Benzo(g,h,i)perylene _____	5	U

(1) - Cannot be separated from Diphenylamine

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

ECHS2

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.002 Date Received: 07/09/99

Lab File ID: D7232 Date Extracted: 07/09/99

Sample Volume: 1000 (mL) Date Analyzed: 07/14/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.				
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For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

VALUE - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

- U** Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.
- R** Indicates the data are unusable. (NOTE: The analyte may or may not be present.)
- N** Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.
- P** Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.
- C** Indicates pesticide results that have been confirmed by GC/MS.
- B** Indicates the analyte is detected in the associated blank as well as in the sample.
- E** Indicates compounds whose concentrations exceed the calibration range of the instrument.
- D** Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
- A** Indicates tentatively identified compounds that are suspected to be aldol condensation products.
- G** Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
- L** Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.
- T** Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.

3531 E Walker Rd

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

1LCA

EPA SAMPLE NO.

ECHSO

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27176

SAS No.: _____

SDG No.: ECHSO

Lab Sample ID: 5325.005

Date Received: 07/09/99

Lab File ID: E0697

Date Analyzed: 07/09/99

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
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74-87-3-----	Chloromethane	1	U
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene chloride	2	U
67-64-1-----	Acetone	5	U
75-15-0-----	Carbon disulfide	1	U
75-35-4-----	1,1-Dichloroethene	1	U
75-34-3-----	1,1-Dichloroethane	1	U
156-59-2-----	cis-1,2-Dichloroethene	1	U
156-60-5-----	trans-1,2-Dichloroethene	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
78-93-3-----	2-Butanone	5	U
74-97-5-----	Bromochloromethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon tetrachloride	1	U
75-27-4-----	Bromodichloromethane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	1	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	1	U
10061-02-6-----	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromoform	1	U
108-10-1-----	4-Methyl-2-pentanone	5	U
591-78-6-----	2-Hexanone	5	U
127-18-4-----	Tetrachloroethene	1	U
79-34-5-----	1,1,2,2-Tetrachloroethane	1	U
106-93-4-----	1,2-Dibromoethane	1	U
108-88-3-----	Toluene	1	U
108-90-7-----	Chlorobenzene	1	U
100-41-4-----	Ethylbenzene	1	U
100-42-5-----	Styrene	1	U
1330-20-7-----	Xylenes (total)	1	U
541-73-1-----	1,3-Dichlorobenzene	1	U
106-46-7-----	1,4-Dichlorobenzene	1	U
95-50-1-----	1,2-Dichlorobenzene	1	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1	U
120-82-1-----	1,2,4-Trichlorobenzene	1	U

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ECHSO

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27176

SAS No.: _____

SDG No.: ECHSO

Lab Sample ID: 5325.005

Date Received: 07/09/99

Lab File ID: D7234

Date Extracted: 07/09/99

Sample Volume: 1000 (mL)

Date Analyzed: 07/14/99

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5-----	2,4-Dinitrophenol _____	20	U
100-02-7-----	4-Nitrophenol _____	20	U
132-64-9-----	Dibenzofuran _____	5	U
121-14-2-----	2,4-Dinitrotoluene _____	5	U
84-66-2-----	Diethylphthalate _____	5	U
7005-72-3-----	4-Chlorophenyl-phenylether _____	5	U
86-73-7-----	Fluorene _____	5	U
100-01-6-----	4-Nitroaniline _____	20	U
534-52-1-----	4,6-Dinitro-2-methylphenol _____	20	U
86-30-6-----	N-Nitrosodiphenylamine (1) _____	5	U
101-55-3-----	4-Bromophenyl-phenylether _____	5	U
118-74-1-----	Hexachlorobenzene _____	5	U
87-86-5-----	Pentachlorophenol _____	20	U
85-01-8-----	Phenanthrene _____	5	U
120-12-7-----	Anthracene _____	5	U
84-74-2-----	Di-n-butylphthalate _____	5	U
206-44-0-----	Fluoranthene _____	5	U
129-00-0-----	Pyrene _____	5	U
85-68-7-----	Butylbenzylphthalate _____	5	U
91-94-1-----	3,3'-Dichlorobenzidine _____	5	U
56-55-3-----	Benzo(a)anthracene _____	5	U
218-01-9-----	Chrysene _____	5	U
117-81-7-----	bis(2-Ethylhexyl)phthalate _____	5	U
117-84-0-----	Di-n-octylphthalate _____	5	U
205-99-2-----	Benzo(b)fluoranthene _____	5	U
207-08-9-----	Benzo(k)fluoranthene _____	5	U
50-32-8-----	Benzo(a)pyrene _____	5	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene _____	5	U
53-70-3-----	Dibenz(a,h)anthracene _____	5	U
191-24-2-----	Benzo(g,h,i)perylene _____	5	U

(1) - Cannot be separated from Diphenylamine

1LCD

EPA SAMPLE NO.

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: PDP ANALYTICAL SERVICES	Contract: 68-D7-0004	ECHS0
Lab Code: PDP	Case No.: 27176	SAS No.: SDG No.: ECHS0
Lab Sample ID: 5325.005		Date Received: 07/09/99
Sample Volume: 1000.00 (mL)		Date Extracted: 07/09/99
Concentrated Extract Volume:	2000 (uL)	Date Analyzed: 07/16/99
Injection Volume: 2 (uL)		Dilution Factor: 1.0
Sulfur Cleanup: (Y/N) N	Extraction: (SepF/Cont) SEPf	

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6-----	alpha-BHC	0.010	U
319-85-7-----	beta-BHC	0.010	U
319-86-8-----	delta-BHC	0.010	U
58-89-9-----	gamma-BHC (Lindane)	0.010	U
76-44-8-----	Heptachlor	0.010	U
309-00-2-----	Aldrin	0.010	U
1024-57-3-----	Heptachlor epoxide	0.010	U
959-98-8-----	Endosulfan I	0.010	U
60-57-1-----	Dieldrin	0.020	U
72-55-9-----	4,4'-DDE	0.020	U
72-20-8-----	Endrin	0.020	U
33213-65-9-----	Endosulfan II	0.020	U
72-54-8-----	4,4'-DDD	0.020	U
1031-07-8-----	Endosulfan sulfate	0.020	U
50-29-3-----	4,4'-DDT	0.020	U
72-43-5-----	Methoxychlor	0.100	U
53494-70-5-----	Endrin ketone	0.020	U
7421-36-3-----	Endrin aldehyde	0.020	U
5103-71-9-----	alpha-Chlordane	0.010	U
12789-03-6-----	gamma-Chlordane	0.010	U
8001-35-2-----	Toxaphene	1.000	U
12674-11-2-----	Aroclor-1016	0.200	U
1104-28-2-----	Aroclor-1221	0.400	U
11141-16-5-----	Aroclor-1232	0.200	U
53469-21-9-----	Aroclor-1242	0.200	U
12672-29-6-----	Aroclor-1248	0.200	U
11097-69-1-----	Aroclor-1254	0.200	U
11096-82-5-----	Aroclor-1260	0.200	U

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ECHS0

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.005 Date Received: 07/09/99

Lab File ID: D7234 Date Extracted: 07/09/99

Sample Volume: 1000 (mL) Date Analyzed: 07/14/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2-----	Phenol	5	U
111-44-4-----	bis(2-Chloroethyl)ether	5	U
95-57-8-----	2-Chlorophenol	5	U
95-48-7-----	2-Methylphenol	5	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5-----	4-Methylphenol	5	U
621-64-7-----	N-Nitroso-di-n-propylamine	5	U
67-72-1-----	Hexachloroethane	5	U
98-95-3-----	Nitrobenzene	5	U
78-59-1-----	Isophorone	5	U
88-75-5-----	2-Nitrophenol	5	U
105-67-9-----	2,4-Dimethylphenol	5	U
111-91-1-----	bis(2-Chloroethoxy)methane	5	U
120-83-2-----	2,4-Dichlorophenol	5	U
91-20-3-----	Naphthalene	5	U
106-47-8-----	4-Chloroaniline	5	U
87-68-3-----	Hexachlorobutadiene	5	U
59-50-7-----	4-Chloro-3-methylphenol	5	U
91-57-6-----	2-Methylnaphthalene	5	U
77-47-4-----	Hexachlorocyclopentadiene	5	U
88-06-2-----	2,4,6-Trichlorophenol	5	U
95-95-4-----	2,4,5-Trichlorophenol	20	U
91-58-7-----	2-Chloronaphthalane	5	U
88-74-4-----	2-Nitroaniline	20	U
131-11-3-----	Dimethylphthalate	5	U
208-96-8-----	Acenaphthylene	5	U
606-20-2-----	2,6-Dintrotoluene	5	U
99-09-2-----	3-Nitroaniline	20	U
83-32-9-----	Acenaphthene	5	U

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

ECHSO

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHSO

Lab Sample ID: 5325.005 Date Received: 07/09/99

Lab File ID: D7234 Date Extracted: 07/09/99

Sample Volume: 1000 (mL) Date Analyzed: 07/14/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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ILCE

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ECHSO

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHSO

Lab Sample ID: 5325.005 Date Received: 07/09/99

Lab File ID: E0697 Date Analyzed: 07/09/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

VALUE - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

- U** Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.
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- R** Indicates the data are unusable. (NOTE: The analyte may or may not be present.)
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- C** Indicates pesticide results that have been confirmed by GC/MS.
- B** Indicates the analyte is detected in the associated blank as well as in the sample.
- E** Indicates compounds whose concentrations exceed the calibration range of the instrument.
- D** Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
- A** Indicates tentatively identified compounds that are suspected to be aldol condensation products.
- G** Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
- L** Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.
- T** Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.

3539 E. Waller Rd

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

1LCA

EPA SAMPLE NO.

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

ECHS5

Lab Code: PDP

Case No.: 27176

SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.008

Date Received: 07/09/99

Lab File ID: E0700

Date Analyzed: 07/09/99

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3-----	Chloromethane _____	1	U
74-83-9-----	Bromomethane _____	1	U
75-01-4-----	Vinyl chloride _____	1	U
75-00-3-----	Chloroethane _____	1	U
75-09-2-----	Methylene chloride _____	2	U
67-64-1-----	Acetone _____	5	U
75-15-0-----	Carbon disulfide _____	1	U
75-35-4-----	1,1-Dichloroethene _____	1	U
75-34-3-----	1,1-Dichloroethane _____	1	U
156-59-2-----	cis-1,2-Dichloroethene _____	1	U
156-60-5-----	trans-1,2-Dichloroethene _____	1	U
67-66-3-----	Chloroform _____	1	U
107-06-2-----	1,2-Dichloroethane _____	1	U
78-93-3-----	2-Butanone _____	5	U
74-97-5-----	Bromochloromethane _____	1	U
71-55-6-----	1,1,1-Trichloroethane _____	1	U
56-23-5-----	Carbon tetrachloride _____	1	U
75-27-4-----	Bromodichloromethane _____	1	U
78-87-5-----	1,2-Dichloropropane _____	1	U
10061-01-5-----	cis-1,3-Dichloropropene _____	1	U
79-01-6-----	Trichloroethene _____	1	U
124-48-1-----	Dibromochloromethane _____	1	U
79-00-5-----	1,1,2-Trichloroethane _____	1	U
71-43-2-----	Benzene _____	1	U
10061-02-6-----	trans-1,3-Dichloropropene _____	1	U
75-25-2-----	Bromoform _____	1	U
108-10-1-----	4-Methyl-2-pentanone _____	5	U
591-78-6-----	2-Hexanone _____	5	U
127-18-4-----	Tetrachloroethene _____	1	U
79-34-5-----	1,1,2,2-Tetrachloroethane _____	1	U
106-93-4-----	1,2-Dibromoethane _____	1	U
108-88-3-----	Toluene _____	1	U
108-90-7-----	Chlorobenzene _____	1	U
100-41-4-----	Ethylbenzene _____	1	U
100-42-5-----	Styrene _____	1	U
1330-20-7-----	Xylenes (total) _____	1	U
541-73-1-----	1,3-Dichlorobenzene _____	1	U
106-46-7-----	1,4-Dichlorobenzene _____	1	U
95-50-1-----	1,2-Dichlorobenzene _____	1	U
96-12-8-----	1,2-Dibromo-3-chloropropane _____	1	U
120-82-1-----	1,2,4-Trichlorobenzene _____	1	U

ILCE
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ECHS5

Lab Name: PDI ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.008 Date Received: 07/09/99

Lab File ID: E0700 Date Analyzed: 07/09/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

VALUE - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

- U** Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.
- R** Indicates the data are unusable. (NOTE: The analyte may or may not be present.)
- N** Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.
- P** Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.
- C** Indicates pesticide results that have been confirmed by GC/MS.
- B** Indicates the analyte is detected in the associated blank as well as in the sample.
- E** Indicates compounds whose concentrations exceed the calibration range of the instrument.
- D** Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
- A** Indicates tentatively identified compounds that are suspected to be aldol condensation products.
- G** Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
- L** Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.
- T** Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.

3547 E. Waters Rd

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

ECHS7

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.010 Date Received: 07/09/99

Lab File ID: E0702 Date Analyzed: 07/09/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 . (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3-----	Chloromethane	1	U
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene chloride	2	U
67-64-1-----	Acetone	5	U
75-15-0-----	Carbon disulfide	1	U
75-35-4-----	1,1-Dichloroethene	1	U
75-34-3-----	1,1-Dichloroethane	1	U
156-59-2-----	cis-1,2-Dichloroethene	1	U
156-60-5-----	trans-1,2-Dichloroethene	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
78-93-3-----	2-Butanone	5	U
74-97-5-----	Bromochloromethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon tetrachloride	1	U
75-27-4-----	Bromodichloromethane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	1	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	1	U
10061-02-6-----	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromoform	1	U
108-10-1-----	4-Methyl-2-pentanone	5	U
591-78-6-----	2-Hexanone	5	U
127-18-4-----	Tetrachloroethene	1	U
79-34-5-----	1,1,2,2-Tetrachloroethane	1	U
106-93-4-----	1,2-Dibromoethane	1	U
108-88-3-----	Toluene	1	U
108-90-7-----	Chlorobenzene	1	U
100-41-4-----	Ethylbenzene	1	U
100-42-5-----	Styrene	1	U
1330-20-7-----	Xylenes (total)	1	U
541-73-1-----	1,3-Dichlorobenzene	1	U
106-46-7-----	1,4-Dichlorobenzene	1	U
95-50-1-----	1,2-Dichlorobenzene	1	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1	U
120-82-1-----	1,2,4-Trichlorobenzene	1	U



1LCE
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

ECHS7

Lab Code: PDP Case No.: 27176 SAS No.: SDG No.: ECHS0

Lab Sample ID: 5325.010 Date Received: 07/09/99

Lab File ID: E0702 Date Analyzed: 07/09/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

VALUE - when if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

- U** Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.
- R** Indicates the data are unusable. (NOTE: The analyte may or may not be present.)
- N** Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.
- P** Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.
- C** Indicates pesticide results that have been confirmed by GC/MS.
- B** Indicates the analyte is detected in the associated blank as well as in the sample.
- E** Indicates compounds whose concentrations exceed the calibration range of the instrument.
- D** Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
- A** Indicates tentatively identified compounds that are suspected to be aldol condensation products.
- G** Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
- L** Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.
- T** Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.

3553 E Waterloo Rd
1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

ECHS6

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.009 Date Received: 07/09/99

Lab File ID: E0701 Date Analyzed: 07/09/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
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74-87-3-----	Chloromethane _____	1	U
74-83-9-----	Bromomethane _____	1	U
75-01-4-----	Vinyl chloride _____	1	U
75-00-3-----	Chloroethane _____	1	U
75-09-2-----	Methylene chloride _____	2	U
67-64-1-----	Acetone _____	5	U
75-15-0-----	Carbon disulfide _____	1	U
75-35-4-----	1,1-Dichloroethene _____	1	U
75-34-3-----	1,1-Dichloroethane _____	1	U
156-59-2-----	cis-1,2-Dichloroethene _____	1	U
156-60-5-----	trans-1,2-Dichloroethene _____	1	U
67-66-3-----	Chloroform _____	1	U
107-06-2-----	1,2-Dichloroethane _____	1	U
78-93-3-----	2-Butanone _____	5	U
74-97-5-----	Bromochloromethane _____	1	U
71-55-6-----	1,1,1-Trichloroethane _____	1	U
56-23-5-----	Carbon tetrachloride _____	1	U
75-27-4-----	Bromodichloromethane _____	1	U
78-87-5-----	1,2-Dichloroproppane _____	1	U
10061-01-5-----	cis-1,3-Dichloropropene _____	1	U
79-01-6-----	Trichloroethene _____	1	U
124-48-1-----	Dibromochloromethane _____	1	U
79-00-5-----	1,1,2-Trichloroethane _____	1	U
71-43-2-----	Benzene _____	1	U
10061-02-6-----	trans-1,3-Dichloropropene _____	1	U
75-25-2-----	Bromoform _____	1	U
108-10-1-----	4-Methyl-2-pentanone _____	5	U
591-78-6-----	2-Hexanone _____	5	U
127-18-4-----	Tetrachloroethene _____	1	U
79-34-5-----	1,1,2,2-Tetrachloroethane _____	1	U
106-93-4-----	1,2-Dibromoethane _____	1	U
108-88-3-----	Toluene _____	1	U
108-90-7-----	Chlorobenzene _____	1	U
100-41-4-----	Ethylbenzene _____	1	U
100-42-5-----	Styrene _____	1	U
1330-20-7-----	Xylenes (total) _____	1	U
541-73-1-----	1,3-Dichlorobenzene _____	1	U
106-46-7-----	1,4-Dichlorobenzene _____	1	U
95-50-1-----	1,2-Dichlorobenzene _____	1	U
96-12-8-----	1,2-Dibromo-3-chloropropane _____	1	U
120-82-1-----	1,2,4-Trichlorobenzene _____	1	U

1LCE
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

ECHS6

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.009 Date Received: 07/09/99

Lab File ID: E0701 Date Analyzed: 07/09/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.				
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ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

VALUE - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

- U** Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.
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X,Y,Z are reserved for laboratory defined flags.

3553 E Waterlo Rd
ILCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

ECHS6

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.009 Date Received: 07/09/99

Lab File ID: E0701 Date Analyzed: 07/09/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3-----	Chloromethane	1	U
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene chloride	2	U
67-64-1-----	Acetone	5	U
75-15-0-----	Carbon disulfide	1	U
75-35-4-----	1,1-Dichloroethene	1	U
75-34-3-----	1,1-Dichloroethane	1	U
156-59-2-----	cis-1,2-Dichloroethene	1	U
156-60-5-----	trans-1,2-Dichloroethene	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
78-93-3-----	2-Butanone	5	U
74-97-5-----	Bromochloromethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon tetrachloride	1	U
75-27-4-----	Bromodichloromethane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	1	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	1	U
10061-02-6-----	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromoform	1	U
108-10-1-----	4-Methyl-2-pentanone	5	U
591-78-6-----	2-Hexanone	5	U
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106-93-4-----	1,2-Dibromoethane	1	U
108-88-3-----	Toluene	1	U
108-90-7-----	Chlorobenzene	1	U
100-41-4-----	Ethylbenzene	1	U
100-42-5-----	Styrene	1	U
1330-20-7-----	Xylenes (total)	1	U
541-73-1-----	1,3-Dichlorobenzene	1	U
106-46-7-----	1,4-Dichlorobenzene	1	U
95-50-1-----	1,2-Dichlorobenzene	1	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1	U
120-82-1-----	1,2,4-Trichlorobenzene	1	U

1LCE
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

ECHS6

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.009 Date Received: 07/09/99

Lab File ID: E0701 Date Analyzed: 07/09/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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ORGANIC DATA QUALIFIER DEFINITIONS

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3568 E Waterford Rd

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EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

ECHS3

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27176

SAS No.: _____

SDG No.: ECHS0

Lab Sample ID: 5325.006

Date Received: 07/09/99

Lab File ID: E0698

Date Analyzed: 07/09/99

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
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74-87-3-----	Chloromethane	1	U
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene chloride	2	U
67-64-1-----	Acetone	5	U
75-15-0-----	Carbon disulfide	1	U
75-35-4-----	1,1-Dichloroethene	1	U
75-34-3-----	1,1-Dichloroethane	1	U
156-59-2-----	cis-1,2-Dichloroethene	1	U
156-60-5-----	trans-1,2-Dichloroethene	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
78-93-3-----	2-Butanone	5	U
74-97-5-----	Bromochloromethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon tetrachloride	1	U
75-27-4-----	Bromodichloromethane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	1	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	1	U
10061-02-6-----	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromoform	1	U
108-10-1-----	4-Methyl-2-pentanone	5	U
591-78-6-----	2-Hexanone	5	U
127-18-4-----	Tetrachloroethene	1	U
79-34-5-----	1,1,2,2-Tetrachloroethane	1	U
106-93-4-----	1,2-Dibromoethane	1	U
108-88-3-----	Toluene	1	U
108-90-7-----	Chlorobenzene	1	U
100-41-4-----	Ethylbenzene	1	U
100-42-5-----	Styrene	1	U
1330-20-7-----	Xylenes (total)	1	U
541-73-1-----	1,3-Dichlorobenzene	1	U
106-46-7-----	1,4-Dichlorobenzene	1	U
95-50-1-----	1,2-Dichlorobenzene	1	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1	U
120-82-1-----	1,2,4-Trichlorobenzene	1	U

1LCE
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ECHS3

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.006 Date Received: 07/09/99

Lab File ID: E0698 Date Analyzed: 07/09/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ECHS3

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27176

SAS No.: _____

SDG No.: ECHS0

Lab Sample ID: 5325.006

Date Received: 07/09/99

Lab File ID: D7235

Date Extracted: 07/09/99

Sample Volume: 1000 (mL)

Date Analyzed: 07/14/99

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5-----	2,4-Dinitrophenol	20	U
100-02-7-----	4-Nitrophenol	20	U
132-64-9-----	Dibenzofuran	5	U
121-14-2-----	2,4-Dinitrotoluene	5	U
84-66-2-----	Diethylphthalate	5	U
7005-72-3-----	4-Chlorophenyl-phenylether	5	U
86-73-7-----	Fluorene	5	U
100-01-6-----	4-Nitroaniline	20	U
534-52-1-----	4,6-Dinitro-2-methylphenol	20	U
86-30-6-----	N-Nitrosodiphenylamine (1)	5	U
101-55-3-----	4-Bromophenyl-phenylether	5	U
118-74-1-----	Hexachlorobenzene	5	U
87-86-5-----	Pentachlorophenol	20	U
85-01-8-----	Phenanthrene	5	U
120-12-7-----	Anthracene	5	U
84-74-2-----	Di-n-butylphthalate	5	U
206-44-0-----	Fluoranthene	5	U
129-00-0-----	Pyrene	5	U
85-68-7-----	Butylbenzylphthalate	5	U
91-94-1-----	3,3'-Dichlorobenzidine	5	U
56-55-3-----	Benzo(a)anthracene	5	U
218-01-9-----	Chrysene	5	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	5	U
117-84-0-----	Di-n-octylphthalate	5	U
205-99-2-----	Benzo(b)fluoranthene	5	U
207-08-9-----	Benzo(k)fluoranthene	5	U
50-32-8-----	Benzo(a)pyrene	5	U
193-39-5-----	Indeno(1,2,3-cd) Pyrene	5	U
53-70-3-----	Dibenz(a,h)anthracene	5	U
191-24-2-----	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

ECHS3

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.006 Date Received: 07/09/99

Lab File ID: D7235 Date Extracted: 07/09/99

Sample Volume: 1000 (mL) Date Analyzed: 07/14/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2-----	Phenol _____	5	U
111-44-4-----	bis(2-Chloroethyl)ether _____	5	U
95-57-8-----	2-Chlorophenol _____	5	U
95-48-7-----	2-Methylphenol _____	5	U
108-60-1-----	2,2'-oxybis(1-Chloropropane) _____	5	U
106-44-5-----	4-Methylphenol _____	5	U
621-64-7-----	N-Nitroso-di-n-propylamine _____	5	U
67-72-1-----	Hexachloroethane _____	5	U
98-95-3-----	Nitrobenzene _____	5	U
78-59-1-----	Isophorone _____	5	U
88-75-5-----	2-Nitrophenol _____	5	U
105-67-9-----	2,4-Dimethylphenol _____	5	U
111-91-1-----	bis(2-Chloroethoxy)methane _____	5	U
120-83-2-----	2,4-Dichlorophenol _____	5	U
91-20-3-----	Naphthalene _____	5	U
106-47-8-----	4-Chloroaniline _____	5	U
87-68-3-----	Hexachlorobutadiene _____	5	U
59-50-7-----	4-Chloro-3-methylphenol _____	5	U
91-57-6-----	2-Methylnaphthalene _____	5	U
77-47-4-----	Hexachlorocyclopentadiene _____	5	U
88-06-2-----	2,4,6-Trichlorophenol _____	5	U
95-95-4-----	2,4,5-Trichlorophenol _____	20	U
91-58-7-----	2-Choronaphthalane _____	5	U
88-74-4-----	2-Nitroaniline _____	20	U
131-11-3-----	Dimethylphthalate _____	5	U
208-96-8-----	Acenaphthylene _____	5	U
606-20-2-----	2,6-Dintrotoluene _____	5	U
99-09-2-----	3-Nitroaniline _____	20	U
83-32-9-----	Acenaphthene _____	5	U

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

ECHS3

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.006 Date Received: 07/09/99

Lab File ID: D7235 Date Extracted: 07/09/99

Sample Volume: 1000 (mL) Date Analyzed: 07/14/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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EPA SAMPLE NO.

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

ECHS3

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: SDG No.: ECHS0

Lab Sample ID: 5325.006 Date Received: 07/09/99

Sample Volume: 1000.00 (mL) Date Extracted: 07/09/99

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 07/16/99

Injection Volume: 2 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6-----	alpha-BHC	0.010	U
319-85-7-----	beta-BHC	0.010	U
319-86-8-----	delta-BHC	0.010	U
58-89-9-----	gamma-BHC (Lindane)	0.010	U
76-44-8-----	Heptachlor	0.010	U
309-00-2-----	Aldrin	0.010	U
1024-57-3-----	Heptachlor epoxide	0.010	U
959-98-8-----	Endosulfan I	0.010	U
60-57-1-----	Dieldrin	0.020	U
72-55-9-----	4,4'-DDE	0.020	U
72-20-8-----	Endrin	0.020	U
33213-65-9-----	Endosulfan II	0.020	U
72-54-8-----	4,4'-DDD	0.020	U
1031-07-8-----	Endosulfan sulfate	0.020	U
50-29-3-----	4,4'-DDT	0.020	U
72-43-5-----	Methoxychlor	0.100	U
53494-70-5-----	Endrin ketone	0.020	U
7421-36-3-----	Endrin aldehyde	0.020	U
5103-71-9-----	alpha-Chlordane	0.010	U
12789-03-6-----	gamma-Chlordane	0.010	U
8001-35-2-----	Toxaphene	1.000	U
12674-11-2-----	Aroclor-1016	0.200	U
1104-28-2-----	Aroclor-1221	0.400	U
11141-16-5-----	Aroclor-1232	0.200	U
53469-21-9-----	Aroclor-1242	0.200	U
12672-29-6-----	Aroclor-1248	0.200	U
11097-69-1-----	Aroclor-1254	0.200	U
11096-82-5-----	Aroclor-1260	0.200	U

Depts of ECHS3 → 2568 E. Waterworks

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

ECHS4

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27176

SAS No.: _____

SDG No.: ECHS0

Lab Sample ID: 5325.007

Date Received: 07/09/99

Lab File ID: E0699

Date Analyzed: 07/09/99

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3-----	Chloromethane	1	U
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene chloride	2	U
67-64-1-----	Acetone	5	U
75-15-0-----	Carbon disulfide	1	U
75-35-4-----	1,1-Dichloroethene	1	U
75-34-3-----	1,1-Dichloroethane	1	U
156-59-2-----	cis-1,2-Dichloroethene	1	U
156-60-5-----	trans-1,2-Dichloroethene	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
78-93-3-----	2-Butanone	5	U
74-97-5-----	Bromochloromethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon tetrachloride	1	U
75-27-4-----	Bromodichloromethane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	1	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	1	U
10061-02-6-----	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromoform	1	U
108-10-1-----	4-Methyl-2-pentanone	5	U
591-78-6-----	2-Hexanone	5	U
127-18-4-----	Tetrachloroethene	1	U
79-34-5-----	1,1,2,2-Tetrachloroethane	1	U
106-93-4-----	1,2-Dibromoethane	1	U
108-88-3-----	Toluene	1	U
108-90-7-----	Chlorobenzene	1	U
100-41-4-----	Ethylbenzene	1	U
100-42-5-----	Styrene	1	U
1330-20-7-----	Xylenes (total)	1	U
541-73-1-----	1,3-Dichlorobenzene	1	U
106-46-7-----	1,4-Dichlorobenzene	1	U
95-50-1-----	1,2-Dichlorobenzene	1	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1	U
120-82-1-----	1,2,4-Trichlorobenzene	1	U

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ECHS4

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.007 Date Received: 07/09/99

Lab File ID: D7236 Date Extracted: 07/09/99

Sample Volume: 1000 (mL) Date Analyzed: 07/14/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2-----	Phenol	5	U
111-44-4-----	bis(2-Chloroethyl)ether	5	U
95-57-8-----	2-Chlorophenol	5	U
95-48-7-----	2-Methylphenol	5	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5-----	4-Methylphenol	5	U
621-64-7-----	N-Nitroso-di-n-propylamine	5	U
67-72-1-----	Hexachloroethane	5	U
98-95-3-----	Nitrobenzene	5	U
78-59-1-----	Isophorone	5	U
88-75-5-----	2-Nitrophenol	5	U
105-67-9-----	2,4-Dimethylphenol	5	U
111-91-1-----	bis(2-Chloroethoxy)methane	5	U
120-83-2-----	2,4-Dichlorophenol	5	U
91-20-3-----	Naphthalene	5	U
106-47-8-----	4-Chloroaniline	5	U
87-68-3-----	Hexachlorobutadiene	5	U
59-50-7-----	4-Chloro-3-methylphenol	5	U
91-57-6-----	2-Methylnaphthalene	5	U
77-47-4-----	Hexachlorocyclopentadiene	5	U
88-06-2-----	2,4,6-Trichlorophenol	5	U
95-95-4-----	2,4,5-Trichlorophenol	20	U
91-58-7-----	2-Chloronaphthalene	5	U
88-74-4-----	2-Nitroaniline	20	U
131-11-3-----	Dimethylphthalate	5	U
208-96-8-----	Acenaphthylene	5	U
606-20-2-----	2,6-Dintrotoluene	5	U
99-09-2-----	3-Nitroaniline	20	U
83-32-9-----	Acenaphthene	5	U

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

1LCC

EPA SAMPLE NO.

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

ECHS4

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.007 Date Received: 07/09/99

Lab File ID: D7236 Date Extracted: 07/09/99

Sample Volume: 1000 (mL) Date Analyzed: 07/14/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5-----	2,4-Dinitrophenol _____	20	U
100-02-7-----	4-Nitrophenol _____	20	U
132-64-9-----	Dibenzofuran _____	5	U
121-14-2-----	2,4-Dinitrotoluene _____	5	U
84-66-2-----	Diethylphthalate _____	5	U
7005-72-3-----	4-Chlorophenyl-phenylether _____	5	U
86-73-7-----	Fluorene _____	5	U
100-01-6-----	4-Nitroaniline _____	20	U
534-52-1-----	4,6-Dinitro-2-methylphenol _____	20	U
86-30-6-----	N-Nitrosodiphenylamine (1) _____	5	U
101-55-3-----	4-Bromophenyl-phenylether _____	5	U
118-74-1-----	Hexachlorobenzene _____	5	U
87-86-5-----	Pentachlorophenol _____	20	U
85-01-8-----	Phenanthrene _____	5	U
120-12-7-----	Anthracene _____	5	U
84-74-2-----	Di-n-butylphthalate _____	5	U
206-44-0-----	Fluoranthene _____	5	U
129-00-0-----	Pyrene _____	5	U
85-68-7-----	Butylbenzylphthalate _____	5	U
91-94-1-----	3,3'-Dichlorobenzidine _____	5	U
56-55-3-----	Benzo(a)anthracene _____	5	U
218-01-9-----	Chrysene _____	5	U
117-81-7-----	bis(2-Ethylhexyl)phthalate _____	6	_____
117-84-0-----	Di-n-octylphthalate _____	5	U
205-99-2-----	Benzo(b)fluoranthene _____	5	U
207-08-9-----	Benzo(k)fluoranthene _____	5	U
50-32-8-----	Benzo(a)pyrene _____	5	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene _____	5	U
53-70-3-----	Dibenz(a,h)anthracene _____	5	U
191-24-2-----	Benzo(g,h,i)perylene _____	5	U

(1) - Cannot be separated from Diphenylamine

1LCE
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ECHS4

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.007 Date Received: 07/09/99

Lab File ID: E0699 Date Analyzed: 07/09/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
8.	_____	_____	_____	_____
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____
11.	_____	_____	_____	_____
12.	_____	_____	_____	_____
13.	_____	_____	_____	_____
14.	_____	_____	_____	_____
15.	_____	_____	_____	_____
16.	_____	_____	_____	_____
17.	_____	_____	_____	_____
18.	_____	_____	_____	_____
19.	_____	_____	_____	_____
20.	_____	_____	_____	_____
21.	_____	_____	_____	_____
22.	_____	_____	_____	_____
23.	_____	_____	_____	_____
24.	_____	_____	_____	_____
25.	_____	_____	_____	_____
26.	_____	_____	_____	_____
27.	_____	_____	_____	_____
28.	_____	_____	_____	_____
29.	_____	_____	_____	_____
30.	_____	_____	_____	_____

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

ECHS4

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.007 Date Received: 07/09/99

Lab File ID: D7236 Date Extracted: 07/09/99

Sample Volume: 1000 (mL) Date Analyzed: 07/14/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1LCD

EPA SAMPLE NO.

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: PDP ANALYTICAL SERVICES	Contract: 68-D7-0004	ECHS4
Lab Code: PDP	Case No.: 27176	SAS No.: SDG No.: ECHS0
Lab Sample ID: 5325.007		Date Received: 07/09/99
Sample Volume: 1000.00 (mL)		Date Extracted: 07/09/99
Concentrated Extract Volume:	2000 (uL)	Date Analyzed: 07/16/99
Injection Volume: 2 (uL)		Dilution Factor: 1.0
Sulfur Cleanup: (Y/N) N	Extraction: (SepF/Cont) SEPF	

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6-----	alpha-BHC	0.010	U
319-85-7-----	beta-BHC	0.010	U
319-86-8-----	delta-BHC	0.010	U
58-89-9-----	gamma-BHC (Lindane)	0.010	U
76-44-8-----	Heptachlor	0.010	U
309-00-2-----	Aldrin	0.010	U
1024-57-3-----	Heptachlor epoxide	0.010	U
959-98-8-----	Endosulfan I	0.010	U
60-57-1-----	Dieldrin	0.020	U
72-55-9-----	4,4'-DDE	0.020	U
72-20-8-----	Endrin	0.020	U
33213-65-9-----	Endosulfan II	0.020	U
72-54-8-----	4,4'-DDD	0.020	U
1031-07-8-----	Endosulfan sulfate	0.020	U
50-29-3-----	4,4'-DDT	0.020	U
72-43-5-----	Methoxychlor	0.100	U
53494-70-5-----	Endrin ketone	0.020	U
7421-36-3-----	Endrin aldehyde	0.020	U
5103-71-9-----	alpha-Chlordane	0.010	U
12789-03-6-----	gamma-Chlordane	0.010	U
8001-35-2-----	Toxaphene	1.000	U
12674-11-2-----	Aroclor-1016	0.200	U
1104-28-2-----	Aroclor-1221	0.400	U
11141-16-5-----	Aroclor-1232	0.200	U
53469-21-9-----	Aroclor-1242	0.200	U
12672-29-6-----	Aroclor-1248	0.200	U
11097-69-1-----	Aroclor-1254	0.200	U
11096-82-5-----	Aroclor-1260	0.200	U

ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

VALUE - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

- U** Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.
- R** Indicates the data are unusable. (NOTE: The analyte may or may not be present.)
- N** Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.
- P** Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.
- C** Indicates pesticide results that have been confirmed by GC/MS.
- B** Indicates the analyte is detected in the associated blank as well as in the sample.
- E** Indicates compounds whose concentrations exceed the calibration range of the instrument.
- D** Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
- A** Indicates tentatively identified compounds that are suspected to be aldol condensation products.
- G** Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
- L** Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.
- T** Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.001 Date Received: 07/09/99

Lab File ID: E0693 Date Analyzed: 07/09/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3-----	Chloromethane _____	1 U	
74-83-9-----	Bromomethane _____	1 U	
75-01-4-----	Vinyl chloride _____	1 U	
75-00-3-----	Chloroethane _____	1 U	
75-09-2-----	Methylene chloride _____	2 U	
67-64-1-----	Acetone _____	5 U	
75-15-0-----	Carbon disulfide _____	1 U	
75-35-4-----	1,1-Dichloroethene _____	1 U	
75-34-3-----	1,1-Dichloroethane _____	1 U	
156-59-2-----	cis-1,2-Dichloroethene _____	1 U	
156-60-5-----	trans-1,2-Dichloroethene _____	1 U	
67-66-3-----	Chloroform _____	1 U	
107-06-2-----	1,2-Dichloroethane _____	1 U	
78-93-3-----	2-Butanone _____	5 U	
74-97-5-----	Bromochloromethane _____	1 U	
71-55-6-----	1,1,1-Trichloroethane _____	1 U	
56-23-5-----	Carbon tetrachloride _____	1 U	
75-27-4-----	Bromodichloromethane _____	1 U	
78-87-5-----	1,2-Dichloropropane _____	1 U	
10061-01-5-----	cis-1,3-Dichloropropene _____	1 U	
79-01-6-----	Trichloroethene _____	1 U	
124-48-1-----	Dibromochloromethane _____	1 U	
79-00-5-----	1,1,2-Trichloroethane _____	1 U	
71-43-2-----	Benzene _____	1 U	
10061-02-6-----	trans-1,3-Dichloropropene _____	1 U	
75-25-2-----	Bromoform _____	1 U	
108-10-1-----	4-Methyl-2-pentanone _____	5 U	
591-78-6-----	2-Hexanone _____	5 U	
127-18-4-----	Tetrachloroethene _____	1 U	
79-34-5-----	1,1,2,2-Tetrachloroethane _____	1 U	
106-93-4-----	1,2-Dibromoethane _____	1 U	
108-88-3-----	Toluene _____	1 U	
108-90-7-----	Chlorobenzene _____	1 U	
100-41-4-----	Ethylbenzene _____	1 U	
100-42-5-----	Styrene _____	1 U	
1330-20-7-----	Xylenes (total) _____	1 U	
541-73-1-----	1,3-Dichlorobenzene _____	1 U	
106-46-7-----	1,4-Dichlorobenzene _____	1 U	
95-50-1-----	1,2-Dichlorobenzene _____	1 U	
96-12-8-----	1,2-Dibromo-3-chloropropane _____	1 U	
120-82-1-----	1,2,4-Trichlorobenzene _____	1 U	

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ECHS1

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27176

SAS No.: _____

SDG No.: ECHS0

Lab Sample ID: 5325.001

Date Received: 07/09/99

Lab File ID: D7231

Date Extracted: 07/09/99

Sample Volume: 1000 (mL)

Date Analyzed: 07/14/99

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2-----	Phenol _____	5	U
111-44-4-----	bis(2-Chloroethyl)ether _____	5	U
95-57-8-----	2-Chlorophenol _____	5	U
95-48-7-----	2-Methylphenol _____	5	U
108-60-1-----	2,2'-oxybis(1-Chloropropane) _____	5	U
106-44-5-----	4-Methylphenol _____	5	U
621-64-7-----	N-Nitroso-di-n-propylamine _____	5	U
67-72-1-----	Hexachloroethane _____	5	U
98-95-3-----	Nitrobenzene _____	5	U
78-59-1-----	Isophorone _____	5	U
88-75-5-----	2-Nitrophenol _____	5	U
105-67-9-----	2,4-Dimethylphenol _____	5	U
111-91-1-----	bis(2-Chloroethoxy)methane _____	5	U
120-83-2-----	2,4-Dichlorophenol _____	5	U
91-20-3-----	Naphthalene _____	5	U
106-47-8-----	4-Chloroaniline _____	5	U
87-68-3-----	Hexachlorobutadiene _____	5	U
59-50-7-----	4-Chloro-3-methylphenol _____	5	U
91-57-6-----	2-Methylnaphthalene _____	5	U
77-47-4-----	Hexachlorocyclopentadiene _____	5	U
88-06-2-----	2,4,6-Trichlorophenol _____	5	U
95-95-4-----	2,4,5-Trichlorophenol _____	20	U
91-58-7-----	2-Chloronaphthalene _____	5	U
88-74-4-----	2-Nitroaniline _____	20	U
131-11-3-----	Dimethylphthalate _____	5	U
208-96-8-----	Acenaphthylene _____	5	U
606-20-2-----	2,6-Dintrotoluene _____	5	U
99-09-2-----	3-Nitroaniline _____	20	U
83-32-9-----	Acenaphthene _____	5	U

1LCC
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECHS1

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.001 Date Received: 07/09/99

Lab File ID: D7231 Date Extracted: 07/09/99

Sample Volume: 1000 (mL) Date Analyzed: 07/14/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5-----	2,4-Dinitrophenol _____	20	U
100-02-7-----	4-Nitrophenol _____	20	U
132-64-9-----	Dibenzofuran _____	5	U
121-14-2-----	2,4-Dinitrotoluene _____	5	U
84-66-2-----	Diethylphthalate _____	5	U
7005-72-3-----	4-Chlorophenyl-phenylether _____	5	U
86-73-7-----	Fluorene _____	5	U
100-01-6-----	4-Nitroaniline _____	20	U
534-52-1-----	4,6-Dinitro-2-methylphenol _____	20	U
86-30-6-----	N-Nitrosodiphenylamine (1) _____	5	U
101-55-3-----	4-Bromophenyl-phenylether _____	5	U
118-74-1-----	Hexachlorobenzene _____	5	U
87-86-5-----	Pentachlorophenol _____	20	U
85-01-8-----	Phenanthrene _____	5	U
120-12-7-----	Anthracene _____	5	U
84-74-2-----	Di-n-butylphthalate _____	5	U
206-44-0-----	Fluoranthene _____	5	U
129-00-0-----	Pyrene _____	5	U
85-68-7-----	Butylbenzylphthalate _____	5	U
91-94-1-----	3,3'-Dichlorobenzidine _____	5	U
56-55-3-----	Benzo(a)anthracene _____	5	U
218-01-9-----	Chrysene _____	5	U
117-81-7-----	bis(2-Ethylhexyl)phthalate _____	5	U
117-84-0-----	Di-n-octylphthalate _____	5	U
205-99-2-----	Benzo(b)fluoranthene _____	5	U
207-08-9-----	Benzo(k)fluoranthene _____	5	U
50-32-8-----	Benzo(a)pyrene _____	5	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene _____	5	U
53-70-3-----	Dibenz(a,h)anthracene _____	5	U
191-24-2-----	Benzo(g,h,i)perylene _____	5	U

(1) - Cannot be separated from Diphenylamine

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

ECHS1

Lab Code: PDP Case No.: 27176 SAS No.: SDG No.: ECHS0

Lab Sample ID: 5325.001 Date Received: 07/09/99

Sample Volume: 1000.00 (mL) Date Extracted: 07/09/99

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 07/16/99

Injection Volume: 2 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6-----	alpha-BHC	0.010	U
319-85-7-----	beta-BHC	0.010	U
319-86-8-----	delta-BHC	0.010	U
58-89-9-----	gamma-BHC (Lindane)	0.010	U
76-44-8-----	Heptachlor	0.010	U
309-00-2-----	Aldrin	0.010	U
1024-57-3-----	Heptachlor epoxide	0.010	U
959-98-8-----	Endosulfan I	0.010	U
60-57-1-----	Dieldrin	0.020	U
72-55-9-----	4,4'-DDE	0.020	U
72-20-8-----	Endrin	0.020	U
33213-65-9-----	Endosulfan II	0.020	U
72-54-8-----	4,4'-DDD	0.020	U
1031-07-8-----	Endosulfan sulfate	0.020	U
50-29-3-----	4,4'-DDT	0.020	U
72-43-5-----	Methoxychlor	0.100	U
53494-70-5-----	Endrin ketone	0.020	U
7421-36-3-----	Endrin aldehyde	0.020	U
5103-71-9-----	alpha-Chlordane	0.010	U
12789-03-6-----	gamma-Chlordane	0.010	U
8001-35-2-----	Toxaphene	1.000	U
12674-11-2-----	Aroclor-1016	0.200	U
1104-28-2-----	Aroclor-1221	0.400	U
11141-16-5-----	Aroclor-1232	0.200	U
53469-21-9-----	Aroclor-1242	0.200	U
12672-29-6-----	Aroclor-1248	0.200	U
11097-69-1-----	Aroclor-1254	0.200	U
11096-82-5-----	Aroclor-1260	0.200	U

1LCE
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

ECHS1

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.001 Date Received: 07/09/99

Lab File ID: E0693 Date Analyzed: 07/09/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
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19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

VALUE - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

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- J** Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.
- R** Indicates the data are unusable. (NOTE: The analyte may or may not be present.)
- N** Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.
- P** Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.
- C** Indicates pesticide results that have been confirmed by GC/MS.
- B** Indicates the analyte is detected in the associated blank as well as in the sample.
- E** Indicates compounds whose concentrations exceed the calibration range of the instrument.
- D** Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
- A** Indicates tentatively identified compounds that are suspected to be aldol condensation products.
- G** Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
- L** Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.
- T** Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBB01

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27268 SAS No.: _____ SDG No.: EBB01

Lab Sample ID: 5374.002 Date Received: 08/06/99

Lab File ID: B2700 Date Analyzed: 08/11/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3-----	Chloromethane	1 U	
74-83-9-----	Bromomethane	1 U	
75-01-4-----	Vinyl chloride	1 U	
75-00-3-----	Chloroethane	1 U	
75-09-2-----	Methylene chloride	2 U	
67-64-1-----	Acetone	5 U	
75-15-0-----	Carbon disulfide	1 U	
75-35-4-----	1,1-Dichloroethene	1 U	
75-34-3-----	1,1-Dichloroethane	1 U	
156-59-2-----	cis-1,2-Dichloroethene	1 U	
156-60-5-----	trans-1,2-Dichloroethene	1 U	
67-66-3-----	Chloroform	1 U	
107-06-2-----	1,2-Dichloroethane	1 U	
78-93-3-----	2-Butanone	5 U	
74-97-5-----	Bromochloromethane	1 U	
71-55-6-----	1,1,1-Trichloroethane	1 U	
56-23-5-----	Carbon tetrachloride	1 U	
75-27-4-----	Bromodichloromethane	1 U	
78-87-5-----	1,2-Dichloropropane	1 U	
10061-01-5-----	cis-1,3-Dichloropropene	1 U	
79-01-6-----	Trichloroethene	1 U	
124-48-1-----	Dibromochloromethane	1 U	
79-00-5-----	1,1,2-Trichloroethane	1 U	
71-43-2-----	Benzene	1 U	
10061-02-6-----	trans-1,3-Dichloropropene	1 U	
75-25-2-----	Bromoform	1 U	
108-10-1-----	4-Methyl-2-pentanone	5 U	
591-78-6-----	2-Hexanone	5 U	
127-18-4-----	Tetrachloroethene	1 U	
79-34-5-----	1,1,2,2-Tetrachloroethane	1 U	
106-93-4-----	1,2-Dibromoethane	1 U	
108-88-3-----	Toluene	1 U	
108-90-7-----	Chlorobenzene	1 U	
100-41-4-----	Ethylbenzene	1 U	
100-42-5-----	Styrene	1 U	
1330 20-7-----	Xylenes (total)	1 U	
541-73-1-----	1,3-Dichlorobenzene	1 U	
106-46-7-----	1,4-Dichlorobenzene	1 U	
95-50-1-----	1,2-Dichlorobenzene	1 U	
96-12-8-----	1,2-Dibromo-3-chloropropane	1 U	
120-82-1-----	1,2,4-Trichlorobenzene	1 U	

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

VALUE - when if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

- U** Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.
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- R** Indicates the data are unusable. (NOTE: The analyte may or may not be present.)
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- B** Indicates the analyte is detected in the associated blank as well as in the sample.
- E** Indicates compounds whose concentrations exceed the calibration range of the instrument.
- D** Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
- A** Indicates tentatively identified compounds that are suspected to be aldol condensation products.
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- T** Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

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LOW CONC, WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBB01

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27268 SAS No.: SDG No.: EBB01

Lab Sample ID: 5374.002 Date Received: 08/06/99

Lab File ID: B2700 Date Analyzed: 08/11/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3-----	Chloromethane	1 U	
74-83-9-----	Bromomethane	1 U	
75-01-4-----	Vinyl chloride	1 U	
75-00-3-----	Chloroethane	1 U	
75-09-2-----	Methylene chloride	2 U	
67-64-1-----	Acetone	5 U	
75-15-0-----	Carbon disulfide	1 U	
75-35-4-----	1,1-Dichloroethene	1 U	
75-34-3-----	1,1-Dichloroethane	1 U	
156-59-2-----	cis-1,2-Dichloroethene	1 U	
156-60-5-----	trans-1,2-Dichloroethene	1 U	
67-66-3-----	Chloroform	1 U	
107-06-2-----	1,2-Dichloroethane	1 U	
78-93-3-----	2-Butanone	5 U	
74-97-5-----	Bromochloromethane	1 U	
71-55-6-----	1,1,1-Trichloroethane	1 U	
56-23-5-----	Carbon tetrachloride	1 U	
75-27-4-----	Bromodichloromethane	1 U	
78-87-5-----	1,2-Dichloropropane	1 U	
10061-01-5-----	cis-1,3-Dichloropropene	1 U	
79-01-6-----	Trichloroethene	1 U	
124-48-1-----	Dibromochloromethane	1 U	
79-00-5-----	1,1,2-Trichloroethane	1 U	
71-43-2-----	Benzene	1 U	
10061-02-6-----	trans-1,3-Dichloropropene	1 U	
75-25-2-----	Bromoform	1 U	
108-10-1-----	4-Methyl-2-pentanone	5 U	
591-78-6-----	2-Hexanone	5 U	
127-18-4-----	Tetrachloroethene	1 U	
79-34-5-----	1,1,2,2-Tetrachloroethane	1 U	
106-93-4-----	1,2-Dibromoethane	1 U	
108-88-3-----	Toluene	1 U	
108-90-7-----	Chlorobenzene	1 U	
100-41-4-----	Ethylbenzene	1 U	
100-42-5-----	Styrene	1 U	
1330 20-7-----	Xylenes (total)	1 U	
541-73-1-----	1,3-Dichlorobenzene	1 U	
106-46-7-----	1,4-Dichlorobenzene	1 U	
95-50-1-----	1,2-Dichlorobenzene	1 U	
96-12-8-----	1,2-Dibromo-3-chloropropane	1 U	
120-82-1-----	1,2,4-Trichlorobenzene	1 U	

ANALYTIC DATA QUALIFIER DEFINITIONS

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X,Y,Z are reserved for laboratory defined flags.

EPON : OHIO EPA, DERR-SIFU

614 728 1717

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

1999.12-03

11:41 #004 P.07/10
EPA SAMPLE NO.

EBB02

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27268 SAS No.: SDG No.: EBB01

Lab Sample ID: 5374.003 Date Received: 08/06/99

Lab File ID: B2706 Date Analyzed: 08/11/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3-----	Chloromethane	1 U	
74-83-9-----	Bromomethane	1 U	
75-01-4-----	Vinyl chloride	1 U	
75-00-3-----	Chloroethane	1 U	
75-09-2-----	Methylene chloride	2 U	
67-64-1-----	Acetone	5 U	
75-15-0-----	Carbon disulfide	1 U	
75-35-4-----	1,1-Dichloroethene	1 U	
75-34-3-----	1,1-Dichloroethane	1 U	
156-59-2-----	cis-1,2-Dichloroethene	1 U	
156-60-5-----	trans-1,2-Dichloroethene	1 U	
67-66-3-----	Chloroform	1 U	
107-06-2-----	1,2-Dichloroethane	1 U	
78-93-3-----	2-Butanone	5 U	
74-97-5-----	Bromoform	1 U	
71-55-6-----	1,1,1-Trichloroethane	1 U	
56-23-5-----	Carbon tetrachloride	1 U	
75-27-4-----	Bromodichloromethane	1 U	
78-87-5-----	1,2-Dichloropropane	1 U	
10061-01-5-----	cis-1,3-Dichloropropene	1 U	
79-01-6-----	Trichloroethene	1 U	
124-48-1-----	Dibromochloromethane	1 U	
79-00-5-----	1,1,2-Trichloroethane	1 U	
71-43-2-----	Benzene	1 U	
10061-02-6-----	trans-1,3-Dichloropropene	1 U	
75-25-2-----	Tetrachloroethene	1 U	
108-10-1-----	Bromoform	1 U	
108-10-1-----	4-Methyl-2-pentanone	5 U	
591-78-6-----	2-Hexanone	5 U	
127-18-4-----	1,1,2-Tetrachloroethane	1 U	
79-34-5-----	1,1,2,2-Tetrachloroethane	1 U	
106-93-4-----	1,2-Dibromoethane	1 U	
108-88-3-----	Toluene	1 U	
108-90-7-----	Chlorobenzene	1 U	
100-41-4-----	Ethylbenzene	1 U	
100-42-5-----	Styrene	1 U	
1330-20-7-----	Xylenes (total)	1 U	
541-73-1-----	1,3-Dichlorobenzene	1 U	
106-46-7-----	1,4-Dichlorobenzene	1 U	
95-50-1-----	1,2-Dichlorobenzene	1 U	
96-12-8-----	1,2-Dibromo-3-chloropropane	1 U	
120-82-1-----	1,2,4-Trichlorobenzene	1 U	

FROM : OHIO EPA, DERR-SIFU

614 728 1717

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

1999.12.03

11:42 #004 P.08/10
EPA SAMPLE NO.

EBB03

Lab Name: PDP ANALYTICAL SERVICES

Contract: 60-D7-0004

Lab Code: PDP

Case No.: 27268

SAS No.:

SDG No.: EBB01

Lab Sample ID: 5374.004

Date Received: 08/06/99

Lab File ID: B2707

Date Analyzed: 08/11/99

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624

ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3-----	Chloromethane	1 U	
74-83-9-----	Bromomethane	1 U	
75-01-4-----	Vinyl chloride	1 U	
75-00-3-----	Chloroethane	1 U	
75-09-2-----	Methylene chloride	2 U	
67-64-1-----	Acetone	5 U	
75-15-0-----	Carbon disulfide	1 U	
75-35-4-----	1,1-Dichloroethene	1 U	
75-34-3-----	1,1-Dichloroethane	1 U	
156-59-2-----	cis-1,2-Dichloroethene	1 U	
156-60-5-----	trans-1,2-Dichloroethene	1 U	
67-66-3-----	Chloroform	1 U	
107-06-2-----	1,2-Dichloroethane	1 U	
78-93-3-----	2-Butanone	5 U	
74-97-5-----	Bromochloromethane	1 U	
71-55-6-----	1,1,1-Trichloroethane	1 U	
56-23-5-----	Carbon tetrachloride	1 U	
75-27-4-----	Bromodichloromethane	1 U	
78-87-5-----	1,2-Dichloropropane	1 U	
10061-01-5----	cis-1,3-Dichloropropene	1 U	
79-01-6-----	Trichloroethene	1 U	
124-48-1-----	Dibromochloromethane	1 U	
79-00-5-----	1,1,2-Trichloroethane	1 U	
71-43-2-----	Benzene	1 U	
10061-02-6----	trans-1,3-Dichloropropene	1 U	
75-25-2-----	Bromoform	1 U	
108-10-1-----	4-Methyl-2-pentanone	5 U	
591-78-6-----	2-Hexanone	5 U	
127-18-4-----	Tetrachloroethene	1 U	
79-34-5-----	1,1,2,2-Tetrachloroethane	1 U	
106-93-4-----	1,2-Dibromoethane	1 U	
108-88-3-----	Toluene	1 U	
108-90-7-----	Chlorobenzene	1 U	
100-41-4-----	Ethylbenzene	1 U	
100-42-5-----	Styrene	1 U	
1330-20-7-----	Xylenes (total)	1 U	
541-73-1-----	1,3-Dichlorobenzene	1 U	
106-46-7-----	1,4-Dichlorobenzene	1 U	
95-50-1-----	1,2-Dichlorobenzene	1 U	
96-12-8-----	1,2-Dibromo-3-chloropropane	1 U	
120-82-1-----	1,2,4-Trichlorobenzene	1 U	

FORM I LCV

000025 OLC02.0

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

VALUE - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

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- R** Indicates the data are unusable. (NOTE: The analyte may or may not be present.)
- N** Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.
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- C** Indicates pesticide results that have been confirmed by GC/MS.
- B** Indicates the analyte is detected in the associated blank as well as in the sample.
- E** Indicates compounds whose concentrations exceed the calibration range of the instrument.
- D** Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
- A** Indicates tentatively identified compounds that are suspected to be aldol condensation products.
- G** Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
- L** Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.
- T** Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.

FROM : OHIO EPA, DERR-SIFU

3640 E WATERLOO RD
614 728 1717

1999.12-03

11:41 #004 P.07/10
EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBB02

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27268 SAS No.: SDG No.: EBB01

Lab Sample ID: 5374.003 Date Received: 08/06/99

Lab File ID: B2706 Date Analyzed: 08/11/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3-----	Chloromethane	1 U	
74-83-9-----	Bromomethane	1 U	
75-01-4-----	Vinyl chloride	1 U	
75-00-3-----	Chloroethane	1 U	
75-09-2-----	Methylene chloride	2 U	
67-64-1-----	Acetone	5 U	
75-15-0-----	Carbon disulfide	1 U	
75-35-4-----	1,1-Dichloroethene	1 U	
75-34-3-----	1,1-Dichloroethane	1 U	
156-59-2-----	cis-1,2-Dichloroethene	1 U	
156-60-5-----	trans-1,2-Dichloroethene	1 U	
67-66-3-----	Chloroform	1 U	
107-06-2-----	1,2-Dichloroethane	1 U	
78-93-3-----	2-Butanone	5 U	
74-97-5-----	Bromochloromethane	1 U	
71-55-6-----	1,1,1-Trichloroethane	1 U	
56-23-5-----	Carbon tetrachloride	1 U	
75-27-4-----	Bromodichloromethane	1 U	
78-87-5-----	1,2-Dichloropropane	1 U	
10061-01-5-----	cis-1,3-Dichloropropene	1 U	
79-01-6-----	Trichloroethene	1 U	
124-48-1-----	Dibromochloromethane	1 U	
79-00-5-----	1,1,2-Trichloroethane	1 U	
71-43-2-----	Benzene	1 U	
10061-02-6-----	trans-1,3-Dichloropropene	1 U	
75-25-2-----	Bromoform	1 U	
108-10-1-----	4-Methyl-2-pentanone	5 U	
591-78-6-----	2-Hexanone	5 U	
127-18-4-----	Tetrachloroethene	1 U	
79-34-5-----	1,1,2,2-Tetrachloroethane	1 U	
106-93-4-----	1,2-Dibromoethane	1 U	
108-88-3-----	Toluene	1 U	
108-90-7-----	Chlorobenzene	1 U	
100-41-4-----	Ethylbenzene	1 U	
100-42-5-----	Styrene	1 U	
1330-20-7-----	Xylenes (total)	1 U	
541-73-1-----	1,3-Dichlorobenzene	1 U	
106-46-7-----	1,4-Dichlorobenzene	1 U	
95-50-1-----	1,2-Dichlorobenzene	1 U	
96-12-8-----	1,2-Dibromo-3-chloropropane	1 U	
120-82-1-----	1,2,4-Trichlorobenzene	1 U	

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBB03

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27268

SAS No.: _____

SDG No.: EBB01

Lab Sample ID: 5374.004

Date Received: 08/06/99

Lab File ID: B2707

Date Analyzed: 08/11/99

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3-----	Chloromethane	1	U
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene chloride	2	U
67-64-1-----	Acetone	5	U
75-15-0-----	Carbon disulfide	1	U
75-35-4-----	1,1-Dichloroethene	1	U
75-34-3-----	1,1-Dichloroethane	1	U
156-59-2-----	cis-1,2-Dichloroethene	1	U
156-60-5-----	trans-1,2-Dichloroethene	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
78-93-3-----	2-Butanone	5	U
74-97-5-----	Bromochloromethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon tetrachloride	1	U
75-27-4-----	Bromodichloromethane	1	O
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	1	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	1	U
10061-02-6-----	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromoform	1	U
108-10-1-----	4-Methyl-2-pentanone	5	U
591-78-6-----	2-Hexanone	5	U
127-18-4-----	Tetrachloroethene	1	U
79-34-5-----	1,1,2,2-Tetrachloroethane	1	U
106-93-4-----	1,2-Dibromoethane	1	U
108-88-3-----	Toluene	1	U
108-90-7-----	Chlorobenzene	1	U
100-41-4-----	Ethylbenzene	1	U
100-42-5-----	Styrene	1	U
1330-20-7-----	Xylenes (total)	1	U
541-73-1-----	1,3-Dichlorobenzene	1	U
106-46-7-----	1,4-Dichlorobenzene	1	U
95-50-1-----	1,2-Dichlorobenzene	1	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1	U
120-82-1-----	1,2,4-Trichlorobenzene	1	U

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

VALUE - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

- U** Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.
- R** Indicates the data are unusable. (NOTE: The analyte may or may not be present.)
- N** Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.
- P** Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.
- C** Indicates pesticide results that have been confirmed by GC/MS.
- B** Indicates the analyte is detected in the associated blank as well as in the sample.
- E** Indicates compounds whose concentrations exceed the calibration range of the instrument.
- D** Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
- A** Indicates tentatively identified compounds that are suspected to be aldol condensation products.
- G** Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
- L** Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.
- T** Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.

950 KEY KU 950 PREY RLLCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

ECQE4

Lab Code: PDP Case No.: 27176 SAS No.: SDG No.: ECHS0

Lab Sample ID: 5325.004 Date Received: 07/09/99

Lab File ID: E0696 Date Analyzed: 07/09/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3-----	Chloromethane	1	U
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene chloride	2	U
67-64-1-----	Acetone	5	U
75-15-0-----	Carbon disulfide	1	U
75-35-4-----	1,1-Dichloroethene	1	U
75-34-3-----	1,1-Dichloroethane	1	U
156-59-2-----	cis-1,2-Dichloroethene	1	U
156-60-5-----	trans-1,2-Dichloroethene	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
78-93-3-----	2-Butanone	5	U
74-97-5-----	Bromochloromethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon tetrachloride	1	U
75-27-4-----	Bromodichloromethane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	1	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	1	U
10061-02-6-----	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromoform	1	U
108-10-1-----	4-Methyl-2-pentanone	5	U
591-78-6-----	2-Hexanone	5	U
127-18-4-----	Tetrachloroethene	1	U
79-34-5-----	1,1,2,2-Tetrachloroethane	1	U
106-93-4-----	1,2-Dibromoethane	1	U
108-88-3-----	Toluene	1	U
108-90-7-----	Chlorobenzene	1	U
100-41-4-----	Ethylbenzene	1	U
100-42-5-----	Styrene	1	U
1330-20-7-----	Xylenes (total)	1	U
541-73-1-----	1,3-Dichlorobenzene	1	U
106-46-7-----	1,4-Dichlorobenzene	1	U
95-50-1-----	1,2-Dichlorobenzene	1	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1	U
120-82-1-----	1,2,4-Trichlorobenzene	1	U

1LCE
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ECQE4

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27176 SAS No.: _____ SDG No.: ECHS0

Lab Sample ID: 5325.004 Date Received: 07/09/99

Lab File ID: E0696 Date Analyzed: 07/09/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
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21.				
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23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

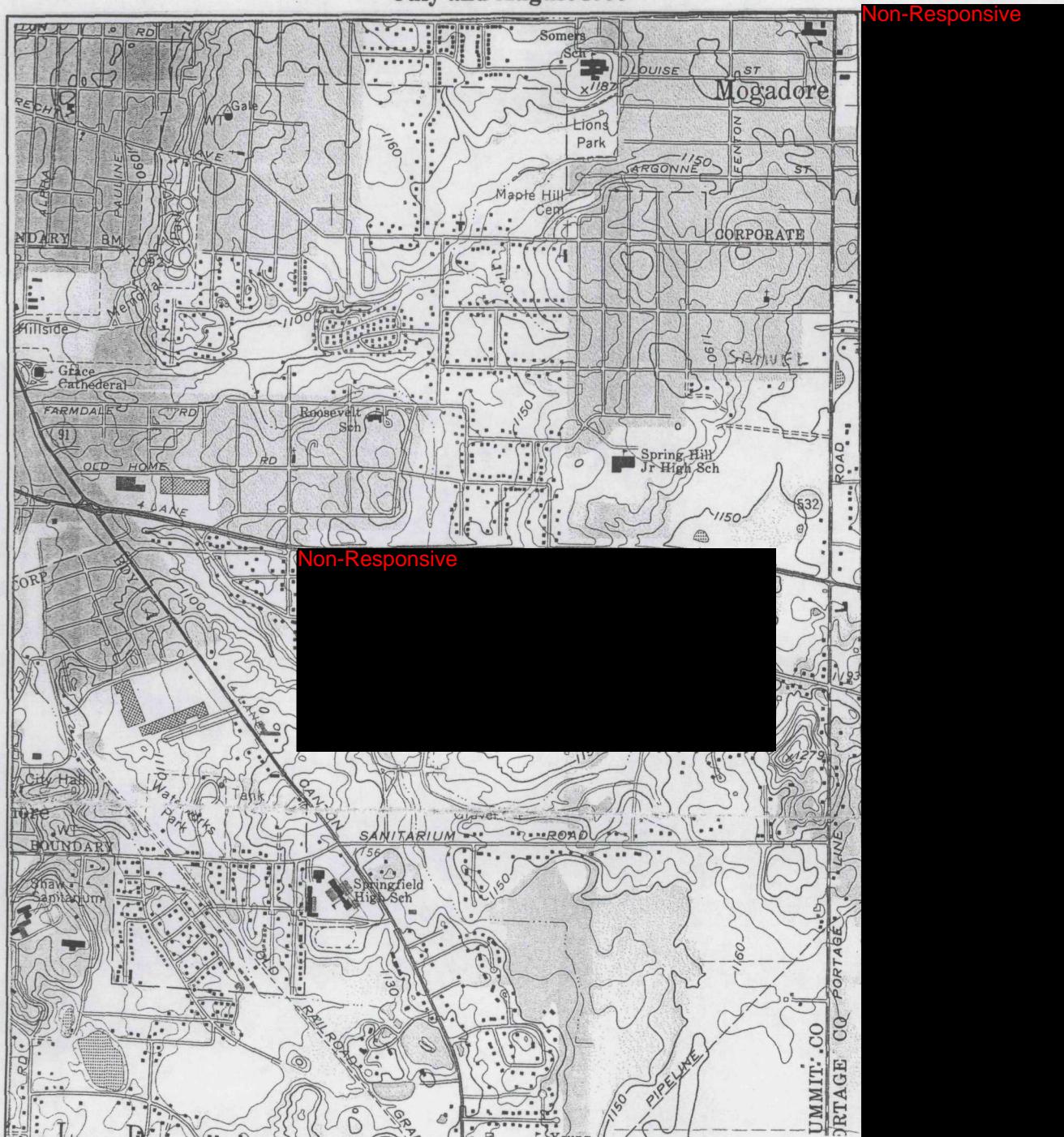
VALUE - when if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

- U** Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.
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- G** Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
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- T** Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

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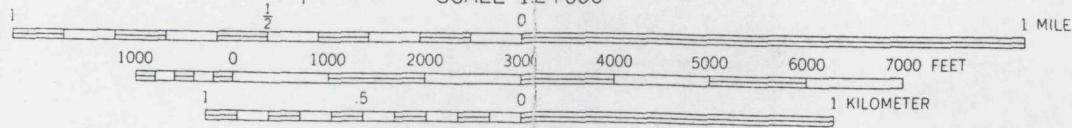
APPENDIX D

Figure 1: Location of East Waterloo and Bey Roads Residential Wells sampled during July and August 1999



Akron East, Ohio Quadrangle

SCALE 1:24000



CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

6½°
116 MILS
GN
MN
0°17'
5 MILS

UTM GRID AND 1984 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET



QUADRANGLE LOCATION

**Figure 2: The Ground-Water Resources in Springfield Township, Summit County, Ohio
and the approximate contours on the Bedrock Surface
(White, R.C., 1953)**



SCALE IN MILES

0 1 2 3 4

GROUND WATER OBTAINED FROM SANDSTONE AND SHALE IN THE POTTSVILLE FORMATION.
SHARON CONGLOMERATE MEMBER IS MORE THAN 100 FEET BELOW LAND SURFACE. ADEQUATE
FARM AND DOMESTIC SUPPLIES GENERALLY AVAILABLE ABOVE THE SHARON. SLIGHTLY
LARGER YIELDS AVAILABLE FROM THE SHARON. WELLS YIELD FROM 5 TO 50 GALLONS A
MINUTE, DEPENDING UPON DEPTH DRILLED.

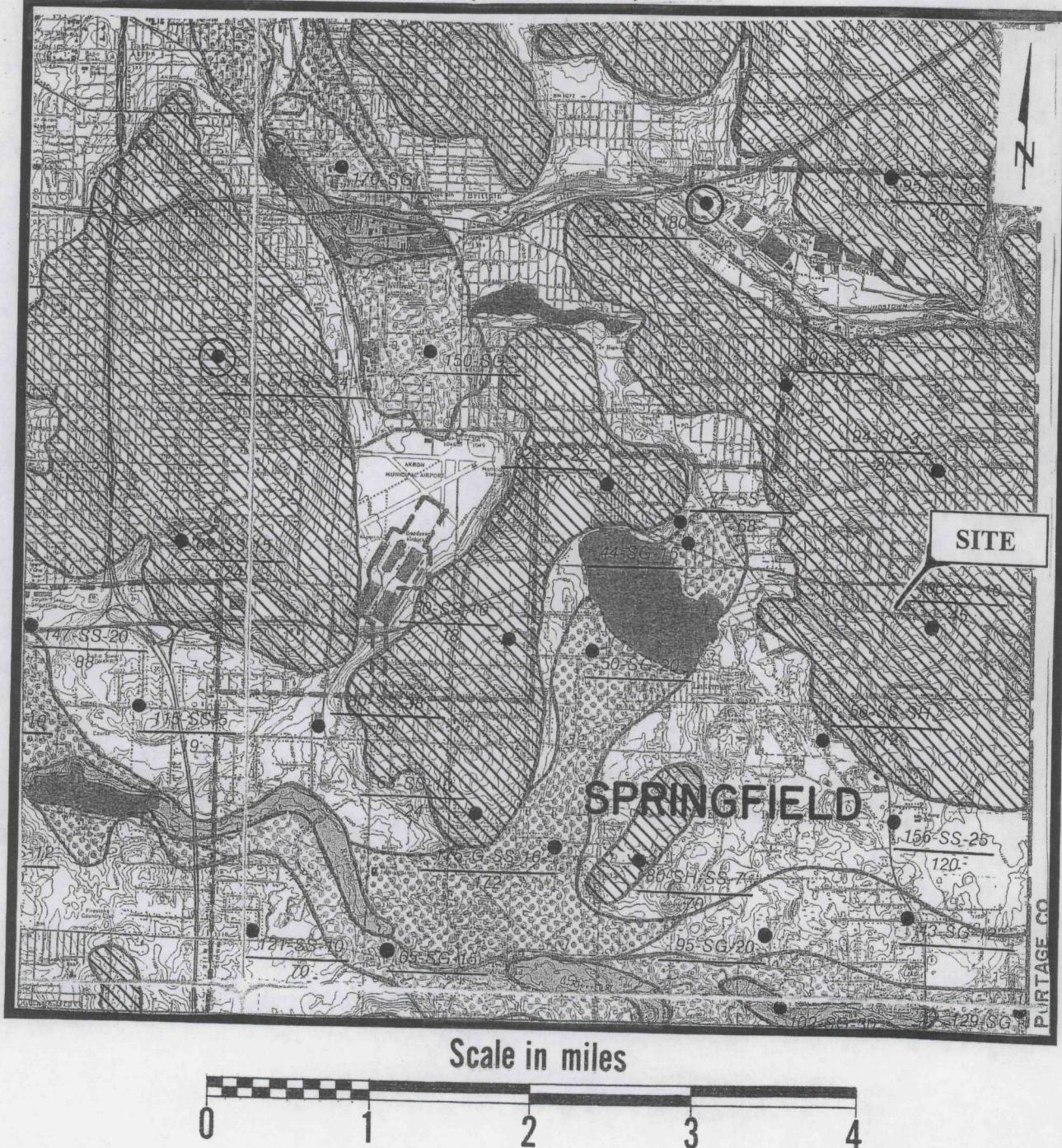
**Figure 3: Soil Survey of Springfield Township
(United States Department of Agriculture, 1974)**



1 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{1}{4}$ 0 1 Mile
 5000 4000 3000 2000 1000 0 5000 Feet
 Scale 1:20000

Soil Series	Symbol	Soil Series	Symbol
Canfield	CfB, CdB	Jimtown	JtA
Chili	CnB, CoC2, CoD2, CpB, CpC, CuB	Loudonville	LoC
Conotton	CyE	Orrville	Or
Fitchville Silt Loam	FcA	Ravenna	ReB
Gravel Pits	Gp	Sebring	Sb
Holly Silt Loam	Ho	Wheeling	WrB

**Figure 4: Ground-Water Resources of Springfield Township, Summit County
(Schmidt, 1979)**



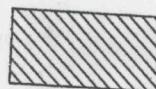
Depth (ft.)-Water-bearing Formation-Yield(gpm)
Depth to Bedrock (ft.)

AREAS IN WHICH YIELDS OF 25 TO 100 GALLONS PER MINUTE CAN BE DEVELOPED

SS - Sandstone SG - Sand & Gravel
FS - Fine Sand UN - Unconsolidated
CL - Clay G - Gravel S - Sand SH - Shale

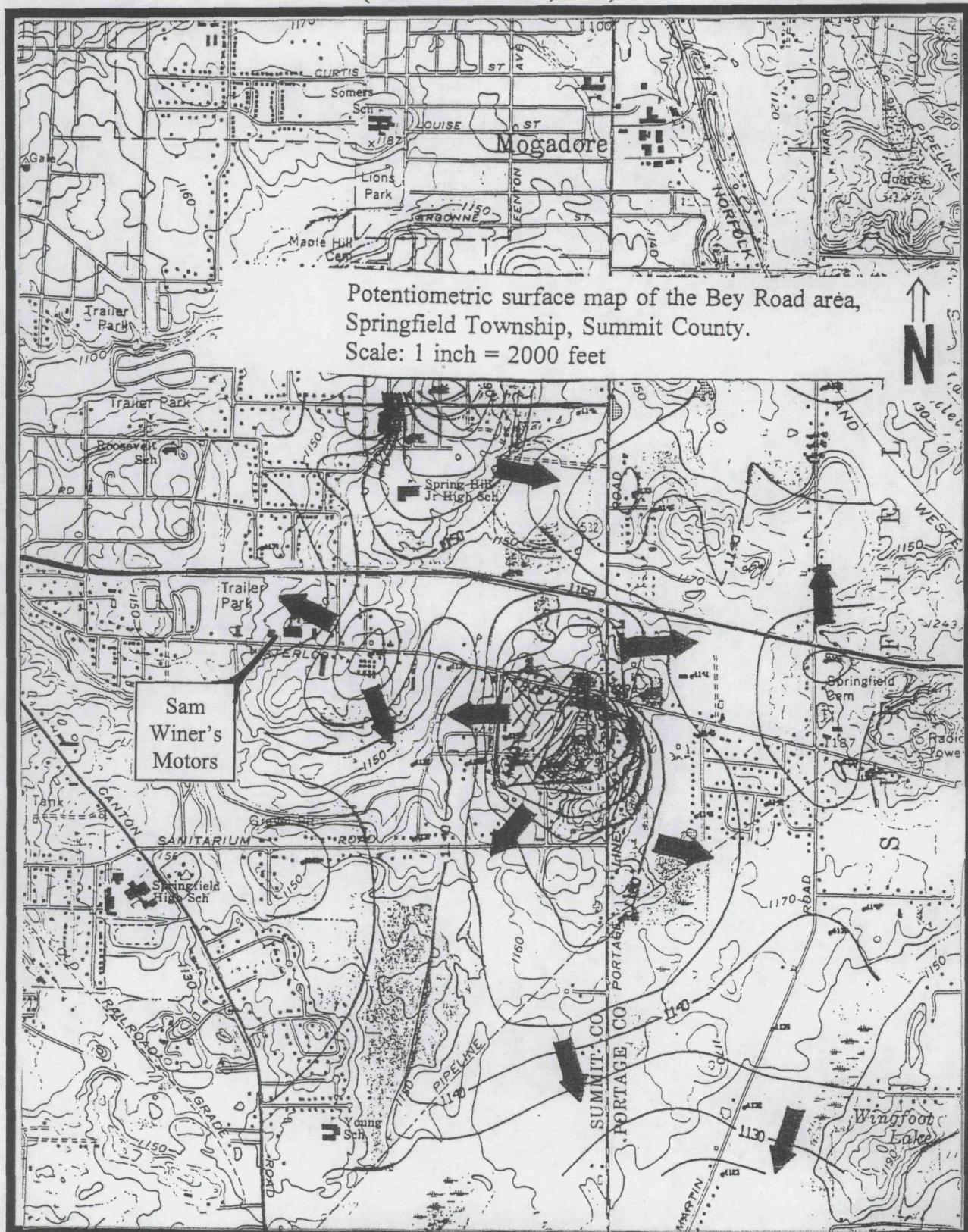
• Water Well

○ Industrial Well



Ground water obtained from sandstone and shale in the Pottsville formation. Yields of 3 to 10 gallons per minute, adequate for farm and domestic use, are available at depths of less than 95 feet. The Sharon conglomerate member is more than 100 feet beneath the surface, and yields as much as 50 gallons per minute.

**Figure 5: Ohio Department of Natural Resources (ODNR) Potentiometric Surface Map
(Raab and Haiker, 1995)**



- Recharge area for Bey Road wells

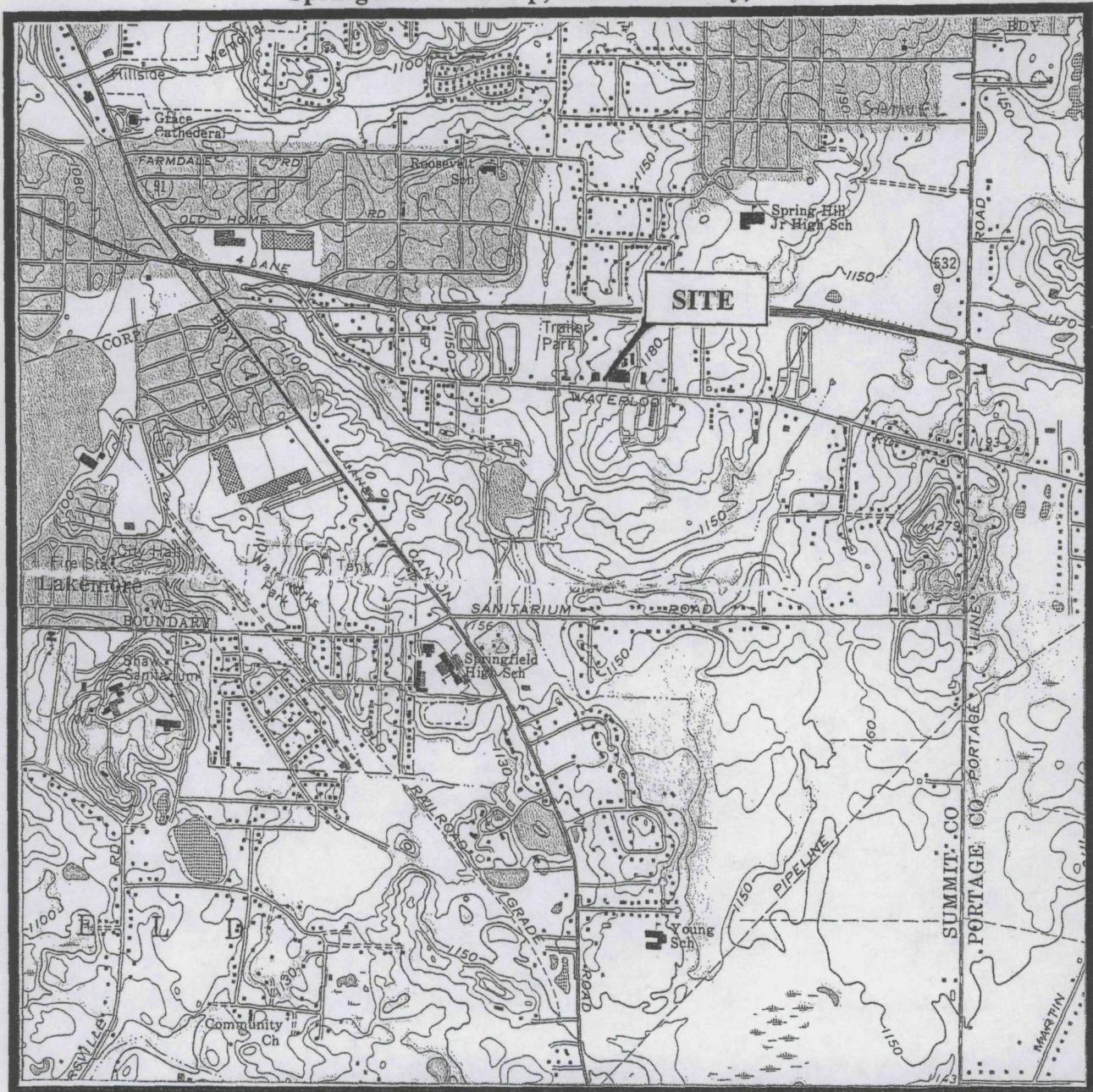


- contour line (contour interval = 10 feet)



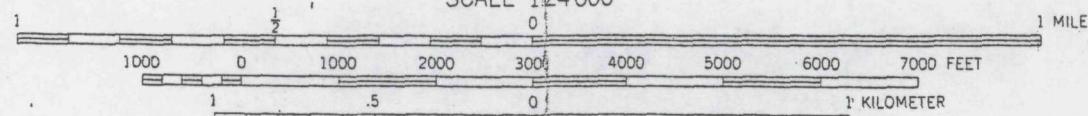
- direction of ground water flow

Figure 6 Location of Sam Winer's Motors, 3417 East Waterloo Road,
Springfield Township, Summit County, Ohio



Akron East, Ohio Quadrangle

SCALE 1:24000



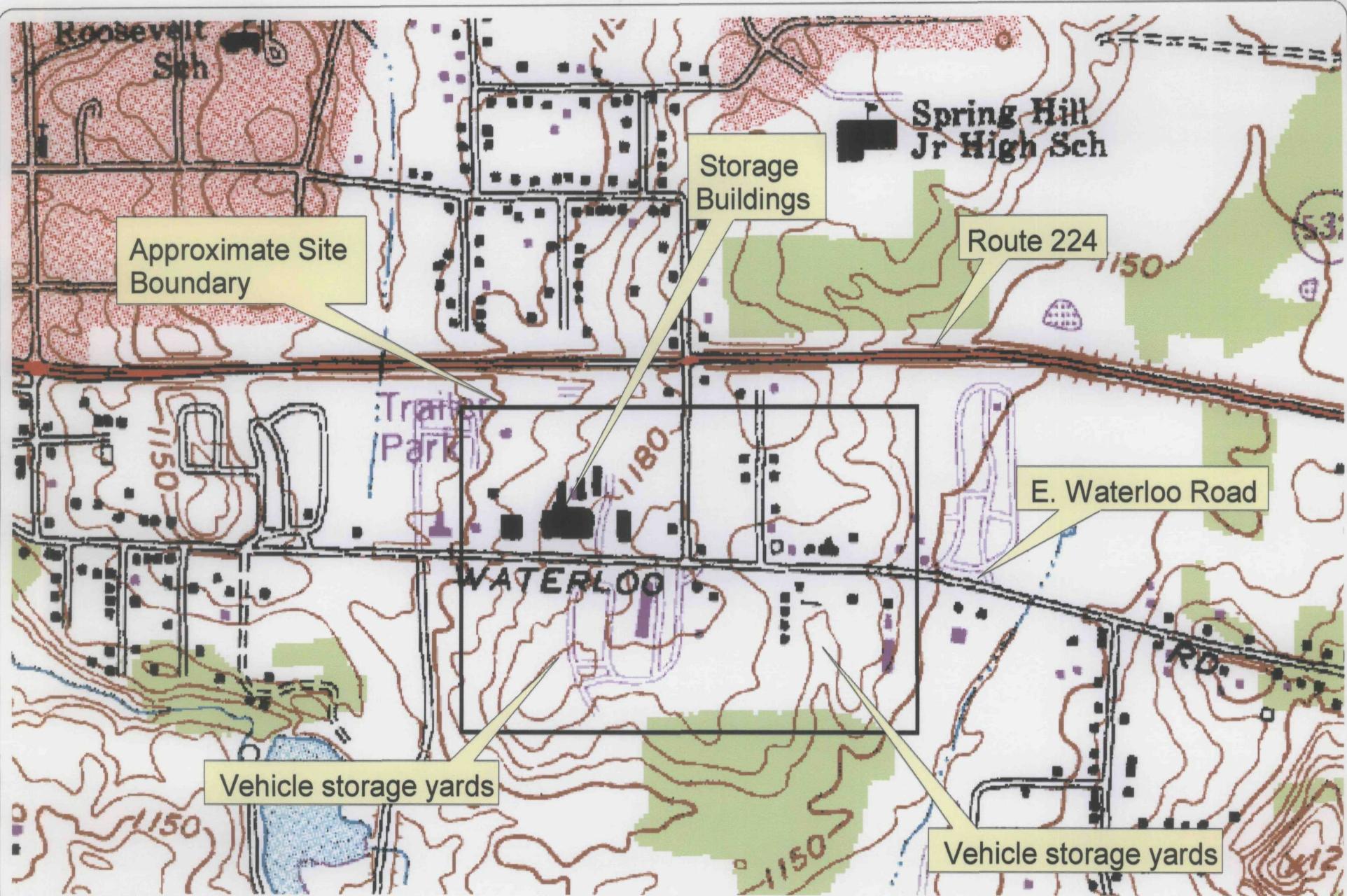
CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

$6\frac{1}{2}^{\circ}$
116 MILS
5 MILS
 $0^{\circ}17'$

UTM GRID AND 1984 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET



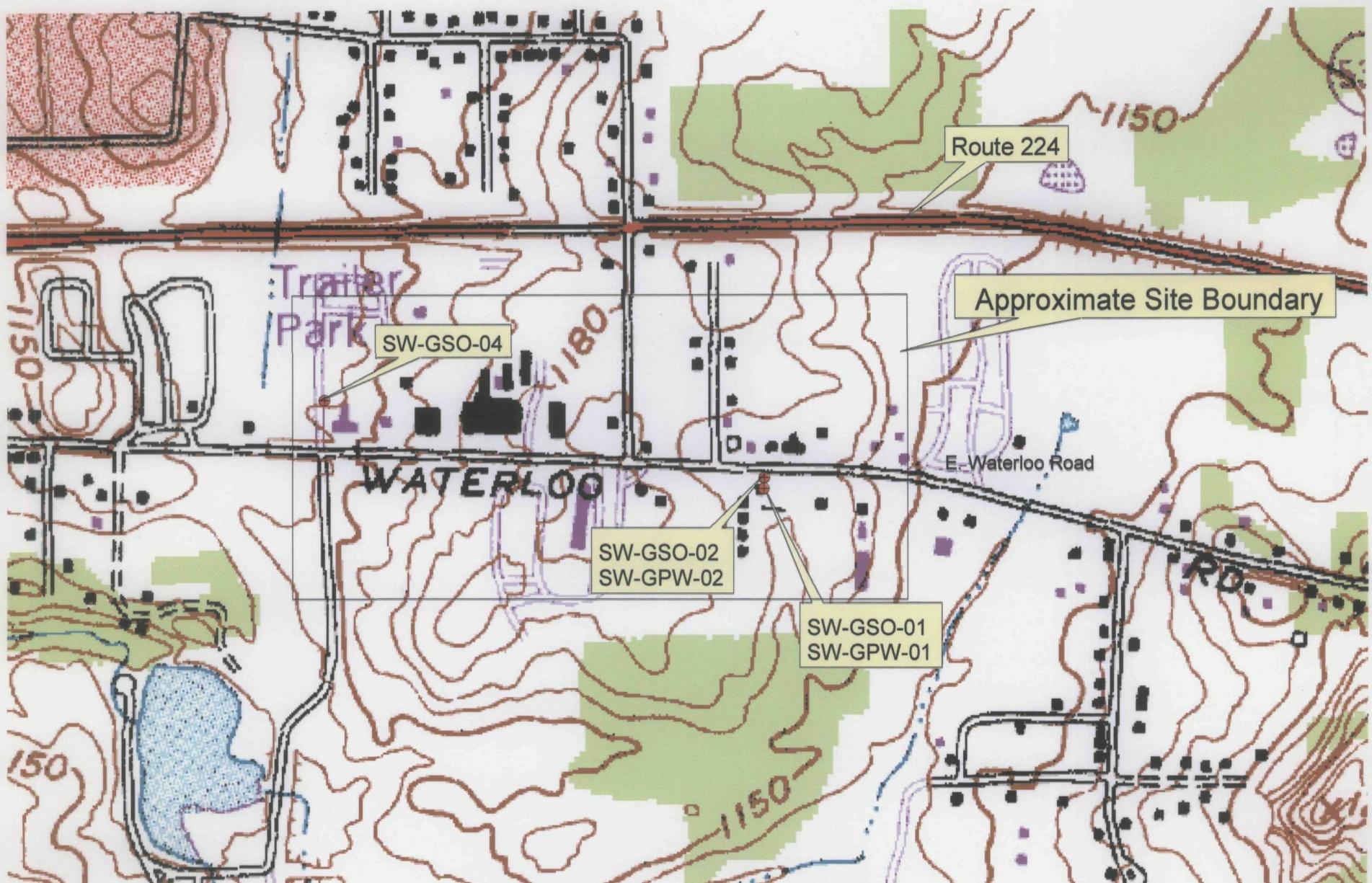
QUADRANGLE LOCATION



Sam Winer Motors Integrated Assessment
Site Features Map
Akron East, OH quad
Figure 7



400 0 400 800 Feet



Sam Winer Motors Integrated Assessment
Soil and Groundwater Sample Location Map
(Akron East, OH quad)
Figure 8

Soil sample



300 0 300 600 Feet

APPENDIX E

sum_.txt

Summit County

SAM_WINER MOTORS

RADIUS (MILES)	TOTAL PEOPLE	WHITE	BLACK	INDIAN	ASIAN	OTHER	HOUSING (UNITS)
3.00-4.00	24,254	23,664	407	27	90	21	9,638
2.00-3.00	15,937	15,741	102	27	29	3	6,458
1.00-2.00	12,497	12,369	45	34	13	4	4,899
0.50-1.00	2,777	2,756	11	3	0	0	1,058
0.25-0.50	779	772	2	1	0	0	325
0.00-0.25	228	226	0	0	0	0	102
	=====	=====	=====	=====	=====	=====	=====
	56,472	55,528	567	92	132	28	22,480

05/15/00

PAGE 1

Ohio EPA
 Division of Emergency & Remedial Response
 Public Water Supply within Radius

ID#	PWS-ID	SOURCE NUMBER	SOURCE CODE	SYSTEM SOURCE	SYSTEM TYPE	SYSTEM NAME	ADDRESS	DISTANCE (MILES)	POPULATION SERVED	
3	7701612	01	G	G	C	HUDSON CITY OF	27 EAST MAIN STREET	HUDSON	14.759	5,600
7	7708412	01	G	G	C	BRIDGEWATER PLACE	3724 COUNTRY CLUB DR	CUYAHOGA FALLS	13.991	25
9	7708212	01	G	G	C	THE SPRINGS	1101 BARLOW ROAD	HUDSON	13.734	25
13	7708112	01	G	G	C	TOWBRIDGE DEVELOPMENT	5521 TOWBRIDGE DR.	HUDSON	13.598	352
19	7702512	01	G	G	C	MOBILE MANOR M. HOMES	100 KEENAN	PENINSULA	13.713	400
20	6702712	01	G	G	C	PORTAGE CO-INFIRMARY RD.	P.O. BOX 1217	RAVENNA	14.579	425
23	7702412	01	G	G	C	MGR, MIDWAY MOBILE HOME P	5115 AKRON-CLEVELAND ROAD	PENINSULA	13.267	20
27	7704812	01	G	G	C	TWIN PINES RETREAT N.H.	456 SEASONS ROAD	STOW	12.614	99
29	6700212	01	G	G	C	BEECHWOOD ISLAND ESTATES	337 CLINTON	RAVENNA	12.323	150
32	7704912	01	G	G	C	INDIAN SPRINGS	4341 RIVERVIEW RD.	PENINSULA	14.679	187
34	6705612	01	G	G	C	PORTAGE CO-PINES CONDOS	P.O. BOX 1217	RAVENNA	12.360	75
39	7705112	01	G	G	C	WAYSIDE FARM NURSING HOM	4557 QUICK ROAD	PENINSULA	12.997	95
41	6702112	01	G	G	C	M & M TRAILER PARK	7353 STATE ROUTE 14	RAVENNA	12.893	75
43	6700322	01	G	G	C	BIRCHWOOD MANOR-NEW PARK	21415 CIVIC CENTER DRIVE	SOUTHFIELD	12.954	150
46	6700312	01	G	G	C	BIRCHWOOD MANOR-OLD.PARK	P.O. BOX 223	VIENNA	12.747	870
47	7703312	01	G	G	C	OAKLEAF MOBILE HOME PARK	3941 STATE RD.	CUYAHOGA FALLS	11.784	66
52	6702612	01	G	G	C	PINE GATE MOBILE VILLAGE	P.O. BOX 2100	STREETSBORO	12.469	450
53	6703012	01	G	G	C	RANCH CLUB EST.WAT.ASSOC	5616 BRAVE CHIEF LANE	RAVENNA	14.685	200
57	6702512	01	G	G	C	ORCHARD ESTATES MOBILE P	657 LONGMERE DR.	KENT	11.237	340
60	6701212	01	G	G	C	FAIR ACRES MOBILE HOME P	3043 S.R. 59	RAVENNA	14.095	239
63	6705712	01	G	G	C	WEST PARK MOBILE HOME PK	3525 S.R. 59	RAVENNA	11.663	430
65	7703212	01	G	G	C	OAK KNOLLS ESTATES	1320 OAKNOLL DR.	AKRON	14.104	86
69	6701912	01	G	G	C	KENT TRAILER PARK	314 S. LINCOLN ST.	KENT	9.777	80
73	6704612	01	G	G	C	VILLAGE ESTATES MOBILE H	1675 S.R.59, SUITE 999	KENT	10.969	450
78	6701812	01	G	G	C	KENT, CITY OF	5860 HODGEMAN LANE	KENT	9.919	30,000
82	7707312	01	G	G	C	PINE MILL RIDGE #2500	PO BOX 3199	CUYAHOGA FALLS	10.586	180
83	7707212	01	G	G	C	PINE MILL RIDGE #2	P.O. BOX 3031	CUYAHOGA FALLS	10.506	150
86	6706112	01	G	G	C	SUNRISE APARTMENTS, LTD.	666 CARNEGIE AVE.	AKRON	8.896	230
89	7707112	01	G	G	C	PINE MILL RIDGE #525	1640 AKRON-PENINSULA, SUITE	AKRON	10.369	60
91	7709212	01	G	G	C	PINE MILL RIDGE #515	P.O. BOX 1436	STOW	10.369	21

93	6704112	01	G	G	C	SUMMIT MOBILE HOME PARK	30700 BAINBRIDGE RD.,UNIT L	SOLON	OH	10.434	350
108	7701012	01	G	G	C	CUYAHOGA FALLS, CITY OF	2310 SECOND STREET	CUYAHOGA FALLS	OH	8.565	48,000
118	6703211	01	S	S	C	RAVENNA, CITY OF	5383 LAKEWOOD ROAD	RAVENNA	OH	9.753	15,000
120	7702612	01	G	G	C	MONTROSE WELL SUPPLY	146 S HIGH STREET P O BOX 36	AKRON	OH	14.706	1,877
123	7706012	01	G	G	C	WHISPERING HEIGHTS CONDO	520 MEREDITH LANE, BOX 416	CUYAHOGA FALLS	OH	9.618	110
127	6705512	01	G	G	C	MEADOW CREEK CONDO ASSOC	5217 G.CLINE RD.	KENT	OH	8.481	150
128	6705412	01	G	G	C	VALLEY HILLS MHP	30700 BAINBRIDGE RD.,UNIT L	SOLON	OH	8.637	650
131	6703612	01	G	G	C	SANDLEWOOD WATER COMPANY	839 E. MARKET STREET	AKRON	OH	7.041	294
136	6704012	01	G	G	C	STONERIDGE TOWNHOUSES	207 KENSINGTON PARK CIRCLE	TALLMADGE	OH	6.925	94
138	6705812	01	G	G	C	KELLIMAR COURT APARTMENT	1615 AKRON-PENINSULA RD	AKRON	OH	6.559	80
142	7703412	01	G	G	C	RIDGEWOOD PLACE	3558 RIDGEWOOD ROAD	AKRON	OH	13.304	155
146	6705912	01	G	G	C	JUST CRICKET COND.ASSOCI	4244 PARLIAMENT DR.	KENT	OH	5.464	115
150	6703712	01	G	G	C	FRANKLIN HILLS WATER	606 MARILYN ST.	KENT	OH	6.804	120
153	7706612	01	G	G	C	FIRST BENEFITS WATER SYS	766 ROTHROCK CIRCLE	COPLEY	OH	13.575	72
155	7705812	01	G	G	C	COPLEY SQUARE WATER CO.	4635 RICHMOND RD. SUITE #105	WARRENSVILLE HEIGHTS	OH	11.972	1,452
160	6706012	01	G	G	C	PORTRAGE CO-BRIMFIELD	P.O. BOX 1217	RAVENNA	OH	4.712	400
163	7707012	01	G	G	C	LORANTFFY CARE CENTER	2631 COPLEY RD	COPLEY	OH	11.799	101
164	6705212	01	G	G	C	CITIZENS UTILITIES-BEECH	P.O. BOX 261, UNIVERSITY PLAZ	KENT	OH	5.414	1,300
167	7700912	01	G	G	C	SUMMIT CO-COPLEY MEADOWS	2525 STATE ROAD	CUYAHOGA FALLS	OH	11.451	392
169	7705612	01	G	G	C	MARTIN HOUSE APARTMENTS	2113 COPLEY ROAD,APT. A-11	AKRON	OH	10.889	150
175	7701812	01	G	G	C	LAKEMORE, VILLAGE OF	2827 SANATORIUM RD	AKRON	OH	3.157	2,865
180	6703912	01	G	G	C	SPRING LAKES MOBILE HOME	214 S. LINCOLN ST.	KENT	OH	8.117	204
185	7700411	01	S	S	C	BARBERTON, CITY OF	576 WEST PARK AVENUE	BARBERTON	OH	10.402	29,000
189	7703112	01	G	G	C	SUMMIT CO-BRENTWOOD	2525 STATE ROAD	CUYAHOGA FALLS	OH	8.249	651
194	7704012	01	G	G	C	WESTERN RESERVE VILLAGE	3250 ALBRECHT AVENUE	AKRON	OH	1.004	150
196	7703512	01	G	G	C	MGR,PIGOTT MOBILE HOME P	3052 ALBRECHT	AKRON	OH	1.078	24
199	7701212	01	G	G	C	FRANKS MOBILE HOME PARK	954 CANTON ROAD	AKRON	OH	1.827	180
202	7700512	01	G	G	C	BEARS MOBILE HOME PARK	1260 EAST TALLMADGE AVE	AKRON	OH	1.415	22
204	7705312	01	G	G	C	WILLOW REST TRAILER PARK	146 WILPARK DRIVE	AKRON	OH	0.770	196
205	6700912	01	G	G	C	COUNTRY ESTATES MHP	818 HOWER NE	NORTH CANTON	OH	13.427	100
210	6703112	01	G	G	C	RANDOLPH ACRES MHP	30700 BAINBRIDGE RD.,UNIT L	SOLON	OH	7.209	520
212	7702112	01	G	G	C	MAPLEWOOD PARK	P.O. BOX 306	KENT	OH	0.667	450
217	7700212	01	G	G	C	ALEXANDER'S MOBILE HOME	KENN PROP, INC. PO BOX 13641	AKRON	OH	2.332	71
219	6705312	01	G	G	C	PORTAGE CO-RIVERMORE SUB	P.O. BOX 1217	RAVENNA	OH	1.470	320
221	6701312	01	G	G	C	FAIRLANE WATER CO.	3987 LEEWOOD ROAD	STOW	OH	3.993	400
226	7709112	01	G	G	C	PENGUIN CONDOMINIUMS	2153 PENGUIN AVE.	AKRON	OH	5.743	90
227	7701912	01	G	G	C	LAKESIDE MOBILE HOME PK	2930 MANCHESTER ROAD	AKRON	OH	7.872	120
230	7701312	01	G	G	C	COVENTRY ESTATES M.H.PK.	2116 S ARLINGTON RD	AKRON	OH	4.766	23
231	7708712	01	G	G	C	SNUG HARBOR CONDO ASSOC.	239-C PORTAGE LAKES DRIVE	AKRON	OH	6.940	54

234	7708912	01	G	G	C	SPINNAKER BAY APARTMENTS	325 PORTAGE LAKES DR.	AKRON	OH	6.964	25
237	7706712	01	G	G	C	PORTRAGE LK KIWANIS TOWER	399 PORTAGE LAKES DRIVE	AKRON	OH	7.427	46
239	7709012	01	G	G	C	HIGHPOINT VILLA APTS.	325 PORTAGE LAKES DR.	AKRON	OH	7.101	28
244	7708012	01	G	G	C	INTERVAL BROTHERHOOD HOM	3445 SOUTH MAIN ST	AKRON	OH	6.501	140
245	7705412	01	G	G	C	MGR-WILLOWVIEW DR. RESID.	3787 EDGE PARK DRIVE	AKRON	OH	7.289	19
248	7705912	01	G	G	C	OLDEN AVE.WAT.LINE ASSOC	238 OLDEN AVENUE	AKRON	OH	6.964	25
250	7707412	01	G	G	C	PEBBLE CREEK CONVALESCEN	670 JARVIS ROAD	AKRON	OH	5.546	180
254	7606112	01	G	G	C	MACE'S MOBILE ESTATES	13675 CLEVELAND AVENUE	UNIONTOWN	OH	2.799	92
256	7602912	01	G	G	C	LITTLE ELK M.H.PARK	1465 FOREST DR.	AKRON	OH	3.022	25
262	8503912	01	G	G	C	SUNDAIL MOBILE HOME PARK	15091 PORTAGE ST	DOYLESTOWN	OH	14.665	142
266	7702812	01	G	G	C	SANDY BEACH TRAILER PARK	3785 SOUTH MAIN STREET	AKRON	OH	6.709	104
267	7703812	01	G	G	C	REX HILL MOBILE HOME PK.	14961 OAK GROVE DR.	DOYLESTOWN	OH	9.015	150
270	8502512	01	G	G	C	OAK PARK MOBILE HOME PAR	14740 OAK GROVE DRIVE	DOYLESTOWN	OH	13.682	450
274	7702212	01	G	G	C	MAYFIELD MOBILE HOME PK.	1909 EAST TURKEYFOOT LAKE RO	AKRON	OH	4.062	88
276	7607412	01	G	G	C	TEMPLE TERRACE APARTMENT	3266 ENSENADA STREET NE	HARTVILLE	OH	5.630	75
277	7701412	01	G	G	C	HEALTHAVEN APT. COMPLEX	615 LATHAM LANE	AKRON	OH	8.462	25
282	7708812	01	G	G	C	HEALTHAVEN NURSING FACIL	615 LATHAM LANE	AKRON	OH	8.464	92
283	7607012	01	G	G	C	HARTVILLE MEADOWS	844 SUNNYSIDE STREET, BOX 10	HARTVILLE	OH	5.270	92
284	7606612	01	G	G	C	PARKSIDE APARTMENTS	931 N MAIN ST, SUITE 202	NORTH CANTON	OH	5.711	156
285	8504412	01	G	G	C	WESTVIEW MHP & SALES	18592 EDWARDS ROAD, WESTVIEW	DOYLESTOWN	OH	13.863	400
291	7607812	01	G	G	C	LAKE WATER & SEWER DISTR	P.O. BOX 448	UNIONTOWN	OH	5.323	25
293	7701112	01	G	G	C	EDGEGATER APARTMENTS	4855 S. MAIN	AKRON	OH	8.161	26
296	7702912	01	G	G	C	NIMISILA MOBILE HOME PAR	418 E.CASTON ROAD	AKRON	OH	8.630	55
297	7708612	01	G	G	C	COURTWOOD APTS 3980-3984	P.O. BOX 6598	AKRON	OH	6.206	25
298	7708312	01	G	G	C	COURTWOOD APTS 3974-3978	P.O. BOX 6598	AKRON	OH	6.206	30
301	7700312	01	G	G	C	AVON MOBILE HOME PARK	4199 MASSILLON ROAD	UNIONTOWN	OH	6.240	231
304	7707812	01	G	G	C	HOBB VILLA #4868	4866 MASSILLON ROAD, OFFICE	NORTH CANTON	OH	7.495	24
307	7707712	01	G	G	C	HOBB VILLA #4866	PO BOX 157	GREEN	OH	7.495	50
309	7707912	01	G	G	C	HOBB VILLA #4900	4866 MASSILLON ROAD, OFFICE	NORTH CANTON	OH	7.495	24
312	7707512	01	G	G	C	COUNTRY VIEW SOUTH APTS.	4977 MASSILLON ROAD	NORTH CANTON	OH	7.701	60
313	7602212	01	G	G	C	ALTERCARE OF HARTVILLE	1420 SMITH-KRAMER RD NE	HARTVILLE	OH	7.834	150
315	7700812	01	G	G	C	COMET MOBILE HOME PARK	80 EAST COMET RD LOT #2	CLINTON	OH	9.855	42
319	7600712	01	G	G	C	NORTH MARKET MFG.M.H.PK.	5403 TYRO ST. NE	NORTH CANTON	OH	8.338	20
320	7607512	01	G	G	C	MT. PLEASANT MANOR	P.O. BOX 2424	NORTH CANTON	OH	8.273	25
322	7600912	01	G	G	C	CANAL FULTON,VILLAGE OF	155 EAST MARKET STREET	CANAL FULTON	OH	13.597	4,300
327	7600112	01	G	G	C	APPLEGROVE WATER COMPANY	2400 APPLEGROVE STREET NW	NORTH CANTON	OH	9.509	2,556
331	7607912	01	G	G	C	WAYVIEW ESTATES APARTMEN	4645 RICHMOND RD-SUITE # 101	CLEVELAND	OH	9.710	30
332	7601712	01	G	G	C	ENGLEWOOD MANOR APTS.	5284 EVERHARD RD NW	CANTON	OH	9.937	125
336	7604312	01	G	G	C	NORTH CANTON, CITY OF	145 N.MAIN STREET	NORTH CANTON	OH	9.800	17,000

340 7602112	01 G	G	C	GASLITE VILLA CONVALESCE	7055 HIGH MILL AVENUE, NW	CANAL FULTON	OH	11.999	178
342 7603312	01 G	G	C	ALTERCARE OF LOUISVILLE	7121 WEST ST. FRANCIS STREET	LOUISVILLE	OH	12.426	100
345 7605212	01 G	G	C	NIST NURSING CENTER	7770 COLUMBUS ROAD NE	LOUISVILLE	OH	13.007	248
349 7607212	01 G	G	C	SCHALMO PROPERTIES-POR TA	464 ETHERIDGE BOULEVARD	CANAL FULTON	OH	10.674	38
355 7604812	01 G	G	C	ROSE LANE HEALTH CENTER	ADMINISTRATOR	MASSILLON	OH	12.845	267
361 7601022	01 G	G	C	CANTON WATER DEPT-N.W.	2664 HARRISBURG RD NE, BOX 79	CANTON	OH	12.542	30,000
363 7605012	01 G	G	C	SHADY KNOLL MHP	606 MARILYN STREET	KENT	OH	13.175	61
365 7603012	01 G	G	C	LOUISVILLE,CITY OF	215 S.MILL STREET	LOUISVILLE	OH	14.957	8,500
366 7601012	01 G	G	C	CANTON WATER DEPT-N.E.	2664 HARRISBURG RD NE, BOX 79	CANTON	OH	14.126	40,000
372 7602512	01 G	G	C	LOUISVILLE MOBILE HOME P	4519 LOUISVILLE ROAD N.E.	CANTON	OH	14.710	90
373 7606912	01 G	G	C	QUAD COMPANY APTS 4706	420 44TH STREET N.W.	CANTON	OH	14.167	30
375 7606922	01 G	G	C	QUAD COMPANY APTS 4722	420 44TH STREET N.W.	CANTON	OH	14.167	50

Ohio EPA
 Division of Emergency & Remedial Response
 Noncommunity Public Water Supplies within radius

ID# PWS-ID	SOURCE NUMBER	SOURCE CODE	SYSTEM SOURCE	SYSTEM TYPE	SYSTEM NAME	ADDRESS	DISTANCE (MILES)	POPULATION SERVED
2 7782812	01 G	G	P		SETON CATHOLIC SCHOOL	6923 STOW RD	HUDSON	14.959 200
4 6774212	01 G	G	N		MAR-LYNN LAKE PARK	187 SR 303	STREETSBORO	14.932 200
6 6771812	01 G	G	N		DOCTOR K.F. RUPP'S OFFIC	9279 SR 14	STREETSBORO	14.971 50
8 6736312	01 G	G	N		COUNTRY SAVINGS AND LOAN	9269 SR#14	STREETSBORO	14.941 60
10 6763612	01 G	G	N		STREETSBORO AUTO BODY SH	PO BOX 94, 9097 BROAD	STREETSBORO	14.937 35
11 6731512	01 G	G	N		BLOEMER ELECTRONICS	8990 SR#14	STREETSBORO	14.933 25
14 6738812	01 G	G	N		EASTEP SUPPLY INCORPORAT	BOX#188	STREETSBORO	14.851 25
15 6765412	01 G	G	P		UNITED METHODIST CHURCH	8940 SR 43	STREETSBORO	14.690 40
18 6765212	01 G	G	N		US AUTOMOTIVE SUPPLY	9011 SR 14	STREETSBORO	14.823 200
20 6732912	01 G	G	N		BUDDY'S BEVERAGE	9062 SR#14	STREETSBORO	14.798 35
21 6730212	01 G	G	N		ALL SEASONS EQUIPMENT	8630 SR#14	STREETSBORO	14.698 30
23 6765712	01 G	G	N		WHITLOCK HOME & AUTO STO	9043 SR 14	STREETSBORO	14.631 300
26 7751122	01 G	G	N		BUDGET INN	5891 AKRON-CLEVELAND ROAD	HUDSON	14.773 40
28 7753912	01 G	G	N		DOUG'S DINNER BUCKET	53 FIREBUSH LANE	NORTHFIELD	14.811 150
30 6747412	01 G	G	N		MCGILLS TIRE & SERVICE	9040 SR#14	STREETSBORO	14.564 40
32 7749212	01 G	G	N		BP OIL STATION #05674	16 WEST STREETSBORO ROAD	PENINSULA	14.742 100
33 7733312	01 G	G	N		HUDSON DELI&GROCERIES	5929 DARROW ROAD	HUDSON	13.912 75
36 7752212	01 G	G	N		DON-EL MOTEL	5133 AKRON-CLEVELAND ROAD	PENINSULA	14.391 32
39 6768312	01 G	G	N		BEAVER GAS STATION #230	9057 SR# 14 & 303	STREETSBORO	14.236 40
40 7730812	01 G	G	N		ELLSWORTH MEADOWS GOLF	1101 BARLOW ROAD	HUDSON	13.670 100
43 7750212	01 G	G	N		AKRON-TURNPIKE MOTEL	4903 STATE ROAD	PENINSULA	14.181 30
44 6756312	01 G	G	N		VALLEY VIEW LAKE-BATHHSE	8326 FERGUSON ROAD	STREETSBORO	13.650 50
46 6756412	01 G	G	N		VALLEY VIEW LAKE PARK	8326 FERGUSON ROAD	STREETSBORO	13.636 50
50 7794012	01 G	G	N		GRACE PRESBYTERIAN CHURC	781 TEREX ROAD	HUDSON	13.638 250
51 7799112	01 G	G	P		CLARKE FORD-SHOW ROOM	5715 DARROW RD.	HUDSON	13.307 40
54 7752112	01 G	G	N		DAIRY QUEEN BRAZIER	4361 STATE ROAD	PENINSULA	13.950 250
55 7743112	01 G	G	N		CLARKE FORD-SPECIAL CRED	5715 DARROW ROAD	HUDSON	13.284 25
57 7790712	01 G	G	P		LEXI-COMP INC.	1100 TEREX ROAD	HUDSON	13.350 24
59 7756212	01 G	G	N		VIRGINIA MOTEL	5374 AKRON-CLEVELAND ROAD	PENINSULA	13.708 40
61 7751512	01 G	G	N		CHILDREN'S PALACE	3479 AKRON-CLEVELAND ROAD	CUYAHOGA FALLS	13.599 100

64	7750912	01	G	G	N	BOB'S BIG BOY	4065 AKRON-CLEVELAND ROAD	CUYAHOGA FALLS	OH	13.357	400
66	7733512	01	G	G	N	LIFE CENTER PLUS FIT CTR	5133 DARROW ROAD	HUDSON	OH	12.621	350
68	6755812	01	G	G	N	TUCKAWAY LAKE	3665 LAKE ROCKWELL RD	RAVENNA	OH	14.089	38
70	6751712	01	G	G	N	RAVENSWOOD GOLF CLUB	7814 INFIRMARY ROAD	RAVENNA	OH	14.627	100
74	7734222	01	G	G	P	FOREST CITY PRECAST SYST	837 SEASONS RD.	STOW	OH	12.764	75
75	7743212	01	G	G	N	TAMSIN PARK CAMPN RESORT	5000 AKRON-CLEVELAND RD	PENINSULA	OH	13.228	200
77	6781012	01	G	G	N	QUIKRETE COMPANIES	2693 LAKE ROCKWELL ROAD	RAVENNA	OH	13.342	25
79	6739712	01	G	G	N	FALCON GAS STATION #209	9057 SR#14	STREETSBORO	OH	13.401	50
81	7743312	01	G	G	N	TAMSIN LAKE PARK RESORT	5000 AKRON-CLEVELAND ROAD	PENINSULA	OH	13.014	100
83	6765112	01	G	G	N	TAVERN AT TWIN LAKES INC	7508 SR 43	KENT	OH	12.480	95
86	6763312	01	G	G	N	RACCOON HILL GOLF CLUB	485 JUDSON ROAD	KENT	OH	11.975	150
87	7731812	01	G	G	N	CAMP MUELLER	4451 AKRON-PENINSULA RD.	PENINSULA	OH	14.558	100
89	7742112	01	G	G	N	SILVER SPRINGS LODGE	5027 STOW ROAD	STOW	OH	11.854	50
91	7753812	01	G	G	N	LOYAL ORDER OF MOOSE 918	4444 STATE ROAD	PENINSULA	OH	12.954	150
94	6762512	01	G	G	N	RUSTY NAIL BANQUET	7280 SR# 43	KENT	OH	12.119	300
95	7742212	01	G	G	N	SILVER SPRINGS-HRSHOE CT	3760 DARROW ROAD	STOW	OH	11.720	200
98	7788312	01	G	G	N	SILVER SPRINGS PARK-LODG	5027 STOW ROAD	STOW	OH	11.714	150
101	7756722	01	G	G	P	WOODRIDGE HIGH SCHOOL	4440 QUICK ROAD	PENINSULA	OH	13.107	377
103	7742012	01	G	G	N	SILVER SPRINGS CAMPGRNDS	3760 DARROW ROAD	STOW	OH	11.657	100
104	6762612	01	G	G	N	RUSTY NAIL RESTAURANT	7291 SR 43	KENT	OH	12.073	100
107	6742512	01	G	G	N	HIDDEN VALLEY CAMPGROUND	3235 DAWLEY ROAD	RAVENNA	OH	13.390	50
109	6761912	01	G	G	N	PORTEAGE COUNTY GLASS	7354 SR 14	RAVENNA	OH	13.217	35
110	7742312	01	G	G	N	SILVER SPRINGS PK-PICNIC	3760 DARROW ROAD	STOW	OH	11.619	100
113	6780312	01	G	G	N	TWIN LAKES CC PUMPHOUSE	1519 OVERLOOK DR PO BOX 216	KENT	OH	12.138	70
114	6772212	01	G	G	N	TWIN LAKES COUNTRY CLUB	1519 OVERLOOK DR PO BOX 216	KENT	OH	12.138	70
116	6765012	01	G	G	N	TWIN LAKES HAIR FASHIONS	7285 SR 43 SUITE A	KENT	OH	11.944	60
119	6778712	01	G	G	N	TWIN LAKES ASSOC.- BEACH	P.O. BOX 94	KENT	OH	11.981	28
121	6759912	01	G	G	N	HILLS GROCERY	7311 SR#43	KENT	OH	11.931	100
123	6764812	01	G	G	N	TWIN LAKES AMOCO	3711 LEHARPS RD.	YOUNGSTOWN	OH	11.848	100
125	7793112	01	G	G	N	SILVER SPRINGS BALL PARK	3760 DARROW ROAD	STOW	OH	11.466	200
126	7752512	01	G	G	N	GAGLIO'S PIZZA SHOP	4280 AKRON-CLEVELAND ROAD	PENINSULA	OH	12.724	400
129	6749912	01	G	G	N	PFEIFFERS TAVERN	7755 SR#44	RAVENNA	OH	13.906	40
130	7744912	01	G	G	N	WYOGA LAKE PARK	455 WYOGA LAKE ROAD	CUYAHOGA FALLS	OH	12.138	100
133	6771412	01	G	G	N	RED DOG SALOON	3374 SR#14	RAVENNA	OH	13.015	100
135	6764912	01	G	G	N	TWIN LAKES CAR WASH	7263 SR 43	KENT	OH	11.655	50
136	6769812	01	G	G	N	HORNING BUILDERS SUPPLY4	7055 SR# 43	KENT	OH	11.633	30
139	6763112	01	G	G	P	SCOTT MOLDERS INCORPORAT	7180 SR#43	KENT	OH	11.669	70
141	7734412	01	G	G	N	FOX DEN FAIRWAYS INC.	2770 CALL ROAD	STOW	OH	11.005	150
142	7754312	01	G	G	N	NORTH LANES	4190 AKRON-CLEVELAND ROAD	CUYAHOGA FALLS	OH	12.383	300

145	7750812	-	01	G	-	G	-	N	-	BOGT SCOOT'N SALOON	4193 STATE RD., PO BOX 3169	CUYAHOGA FALLS	-	OH	12.209	-	700
146	7732212	-	01	G	-	G	-	N	-	CASCADE PORSCHE-AUDI	4149 AKRON-CLEVELAND ROAD	CUYAHOGA FALLS	-	OH	12.199	-	50
149	7749712	-	01	G	-	G	-	N	-	SUMMIT CO. ENGINEERS GARA	38 EAST STEELES CORNER ROAD	CUYAHOGA FALLS	-	OH	11.803	-	35
151	6775012	-	01	G	-	G	-	N	-	TOWNERS WOODS-NEAR WELL	1028 MELOY RD.	KENT	-	OH	11.430	-	150
152	7754012	-	01	G	-	G	-	N	-	MELL-O-DEE INN	3941 AKRON-CLEVELAND ROAD	CUYAHOGA FALLS	-	OH	11.740	-	100
154	7730512	-	01	G	-	G	-	N	-	B-K ROOTBEER	3946 STATE ROAD	CUYAHOGA FALLS	-	OH	11.945	-	100
157	6774912	-	01	G	-	G	-	N	-	TOWNERS WOODS-FAR WELL	1028 MELOY RD.	KENT	-	OH	11.383	-	100
159	6778412	-	01	G	-	G	-	N	-	OAK KNOLLS GOLF - WEST	6700 S.R. 43	KENT	-	OH	10.558	-	300
160	7792612	-	01	G	-	G	-	N	-	DOUBLE PLAY INC	5122 DARROW ROAD	HUDSON	-	OH	10.405	-	200
163	6781112	-	01	G	-	G	-	N	-	WINDMILL LAKES/CIPRIANOS	6544 SR 14	RAVENNA	-	OH	13.818	-	300
164	6739112	-	01	G	-	G	-	N	-	EDLYN MACHINE LIMITED	1990 BRADY LAKE ROAD	KENT	-	OH	10.611	-	25
167	7745612	-	01	G	-	G	-	N	-	BENS CLARK OIL	4111 AKRON-CLEVELAND ROAD	CUYAHOGA FALLS	-	OH	11.275	-	25
168	7747612	-	01	G	-	G	-	N	-	HUDSON OIL COMPANY	3609 AKRON-CLEVELAND ROAD	CUYAHOGA FALLS	-	OH	11.265	-	25
172	7754922	-	01	G	-	G	-	N	-	RANCH MOTEL	3608 STATE ROAD	CUYAHOGA FALLS	-	OH	11.318	-	30
174	6773212	-	01	G	-	G	-	N	-	CHAPARELL LOUNGE	6500 LAKEVIEW DRIVE	RAVENNA	-	OH	9.839	-	30
175	6746912	-	01	G	-	G	-	N	-	LEWIS MARKET	1922 BRADY LAKE ROAD	KENT	-	OH	10.444	-	50
178	6735412	-	01	G	-	G	-	N	-	CLUBHOUSE	2036 WALTON	KENT	-	OH	10.775	-	25
180	7785312	-	01	G	-	P	-	OHIO EDISON KENT	4238 NEWCOMER RD.	STOW	-	OH	9.680	-	40		
183	6731812	-	01	G	-	G	-	N	-	BRADY LAKE PARK	6381 LAKEVIEW DR.	RAVENNA	-	OH	10.750	-	100
184	6773412	-	01	G	-	P	-	HAPPY DAY SCHOOL	2606 BRADY LAKE RD.	RAVENNA	-	OH	11.113	-	240		
187	6773312	-	01	G	-	G	-	N	-	H D INDUSTRIES	2606 BRADY LAKE ROAD	RAVENNA	-	OH	11.318	-	65
190	7749112	-	01	G	-	G	-	N	-	STEELS CORNERS SHELL	4033 AKRON-CLEVELAND ROAD	CUYAHOGA FALLS	-	OH	10.967	-	40
192	6744812	-	01	G	-	G	-	N	-	KENT ELKS	2265 ERIE ST	KENT	-	OH	10.777	-	200
193	6733512	-	01	G	-	G	-	N	-	CAMP JESSIE MAE FAGEOL	345 WHITE POND DRIVE	AKRON	-	OH	14.126	-	40
195	6764412	-	01	G	-	G	-	N	-	SUN BEAU VALLEY RANCH	3229 SR 59	RAVENNA	-	OH	11.492	-	90
198	6779512	-	01	G	-	P	-	PORTAGE PRIVATE INDUSTRY	4833 HARDING AVENUE	RAVENNA	-	OH	13.430	-	154		
199	6741612	-	01	G	-	G	-	N	-	GUY'S AUTO BODY SHOP	2907 SR#59	RAVENNA	-	OH	11.205	-	25
201	6754712	-	01	G	-	G	-	N	-	TACO FIESTA	3477 SR 59	RAVENNA	-	OH	11.722	-	100
204	6750312	-	01	G	-	G	-	N	-	PORTAGE HALL, BINGO	3001 SR# 59	RAVENNA	-	OH	11.046	-	200
206	6741012	-	01	G	-	G	-	N	-	GARY COLLINS USED CARS	3149 SR#59	RAVENNA	-	OH	10.922	-	25
207	6739812	-	01	G	-	G	-	N	-	FALCON GAS STATION #210	2753 SR#59	RAVENNA	-	OH	10.975	-	100
210	7730012	-	01	G	-	G	-	N	-	ADELL DURBIN PARK	3760 DARROW ROAD	STOW	-	OH	9.536	-	100
212	6746212	-	01	G	-	G	-	N	-	LAWSONS #5124	3465 WEST MAIN STREET	RAVENNA	-	OH	11.649	-	50
214	6754212	-	01	G	-	G	-	N	-	EDINBURG BP OIL STATION	4331 SR 14	RAVENNA	-	OH	13.400	-	200
217	6751412	-	01	G	-	G	-	N	-	RAVENNA MOOSE #1234	3090 SR#59	RAVENNA	-	OH	11.064	-	75
219	6756612	-	01	G	-	G	-	N	-	WAIKIKI RESTAURANT	2616 SR 59	RAVENNA	-	OH	10.909	-	100
221	6774512	-	01	G	-	G	-	N	-	MID-WAY DRIVE-IN THEATRE	6263 MAYFIELD RD.	MAYFIELD HTS	-	OH	10.829	-	100
223	6780512	-	01	G	-	G	-	P	-	PORTAGE METRO.HOUSING AU	2832 S.R. 59	RAVENNA	-	OH	10.789	-	32
225	6762112	-	01	G	-	G	-	N	-	RAVENNA AUTO BODY	3456 SR 59	RAVENNA	-	OH	11.637	-	25

226 6731412	01 G	G	N	BLACKHORSE TAVERN	3288 SR#59		RAVENNA	OH	11.388	40
228 6752612	01 G	G	N	SAMS GULF SERVICE STATION	3559 SR#59		RAVENNA	OH	11.617	25
231 6764612	01 G	G	N	TELE-MEDIA INCORPORATED	2596 SR 59		RAVENNA	OH	10.554	25
232 6747612	01 G	G	N	MCVAY TRANSFER AND STORA	2190 SR#59		KENT	OH	10.211	25
234 7743412	01 G	G	N	STO-KENT LANES INC.	3870 FISHCREEK ROAD		STOW	OH	9.032	200
237 6745112	01 G	G	N	KENT STATE GOLF-CLUBHOUS	2346 SR 59		KENT	OH	10.243	200
238 6756112	01 G	G	N	AMF TWIN STAR LANES	2245 SR 59		KENT	OH	10.215	400
239 6763212	01 G	G	N	SICILIAN MANUFACTURING	4330 SR#14		RAVENNA	OH	13.110	25
242 6731312	01 G	G	N	BAVARIAN HAUS II	2256 SR#59		KENT	OH	10.055	200
243 6780612	01 G	G	N	EASTWOOD MOTEL	2296 SR 59		KENT	OH	10.160	30
245 6782012	01 G	G	N	NORTHEAST OHIO EYE SURGE	2013 S.R. 59		KENT	OH	9.889	70
248 6734812	01 G	G	N	CERTIFIED GAS STN. 410	949 KING AVE		COLUMBUS	OH	13.095	900
250 6780212	01 G	G	N	KENT STATE GOLF-MAINT	2346 SR 59		KENT	OH	10.050	150
252 6778812	01 G	G	P	KEVIN COLEMAN CENTER	5982 RHODES RD.		KENT	OH	9.749	72
253 7752812	01 G	G	N	JIMBO'S INCORPORATED	1070 GHENT ROAD		AKRON	OH	14.878	200
256 6778912	01 G	G	N	GODS CHURCH OF DELIVER.	3474 HOMMAN AVE.		RAVENNA	OH	11.037	25
258 7777812	01 G	G	N	BP OIL STATION #05671	1080 GHENT ROAD		AKRON	OH	14.743	75
259 6743222	01 G	G	N	A-J'S GOLF	5727 SR 14		RAVENNA	OH	13.011	90
262 7798512	01 G	G	N	MCDOWELL BRANCH LIBRARY	3101 SMITH ROAD		AKRON	OH	14.094	100
264 6743112	01 G	G	N	HOLIDAY SANDS	P.O. BOX 367		RAVENNA	OH	13.075	200
265 6768012	01 G	G	N	ANIMAL PROTECTIVE LEAGUE	903 EAST LAKE AVENUE		RAVENNA	OH	12.453	100
269 6750112	01 G	G	N	PINE LAKE LODGE	P.O. BOX 1067		RAVENNA	OH	9.993	250
271 6765312	01 G	G	N	ULM USED CARS	2923 E.SUMMIT STREET		RAVENNA	OH	9.599	30
274 7752712	01 G	G	N	JERRY'S CAFE	1617 WEST PORTAGE TRAIL EXT.		CUYAHOGA FALLS	OH	10.255	170
276 6767712	01 G	G	N	FERRARA'S COUNTRY STORE	2588 SUMMIT STREET		KENT	OH	9.433	90
277 6776212	01 G	G	N	KENT CHURCH OF THE NAZAR	1972 SUMMIT RD.		KENT	OH	8.832	130
280 7789512	01 G	G	P	VALLEY OFFICE PARK #1	1640 AKRON-PENINSULA RD		AKRON	OH	10.792	48
282 7789612	01 G	G	P	VALLEY OFFICE PARK #2	1640 AKRON-PENINSULA RD		AKRON	OH	10.799	86
283 6777412	01 G	G	P	SCHNELLER, INC.	P.O. BOX 670		KENT	OH	9.118	130
285 6767812	01 G	G	P	NEW CHILD CENTER	5275 ROOTSTOWN ROAD		RAVENNA	OH	9.268	25
287 6743912	01 G	G	N	JESSICA'S BEAUTY SHOP	3850 SR#14		ROOTSTOWN	OH	12.952	30
290 7745012	01 G	G	N	AKRON READING & SPEECH	700 GHENT ROAD		AKRON	OH	13.566	50
291 7773812	01 G	G	N	BOB EVANS FARM REST.	4076 MEDINA ROAD		COPLEY	OH	14.475	800
293 7795112	01 G	G	P	BEST BUY STORE, MONTROSE	100 ROTHROCK RD		COPLEY	OH	14.752	80
296 6765612	01 G	G	N	ARNIES WEST BRANCH STEAK	5343 SR 14		RAVENNA	OH	13.337	150
298 7782312	01 G	G	N	VICTORY LIFE CHURCH	3833 HUDSON DRIVE		STOW	OH	8.163	400
299 6746412	01 G	G	N	LAZY MEADOWS INC	3557 HERRIFF ROAD		RAVENNA	OH	10.185	25
301 6744512	01 G	G	N	KAYO SERVICE STATION	4841 SR 43		KENT	OH	7.617	200
305 6744912	01 G	G	P	HOLIDAY INN - KENT	4363 SR#43		KENT	OH	7.626	30

				THE OUTPOST	P.O. BOX 37	KENT	OH	7,685	75		
307	6755212	01	G	G	N	SWENSONS	P.O. BOX 4599	AKRON	OH	13.698	500
309	7795412	01	G	G	N	MINIATURE MEADOWS GOLF	1084 KEVIN DRIVE	KENT	OH	7.474	100
311	6747812	01	G	G	N	DUNCANSIDE POOL	549 HOWE ROAD	KENT	OH	6.834	300
313	6738412	01	G	G	N	HARRIS REALTY	4564 SR#43	KENT	OH	7.105	30
314	6742012	01	G	G	N	GIONINO'S PIZZA	4081 SR 43	KENT	OH	6.702	25
317	6779612	01	G	G	N	HORTON OUTBOARD & MARINE	4494 SR#43	KENT	OH	6.908	30
318	6743412	01	G	G	N	COUNTRY KITCHEN REST	4441 SR 43	KENT	OH	6.817	600
321	6736212	01	G	G	N	RUSSELLS RURAL REST	4668 SHERMAN RD	KENT	OH	7.302	25
322	6752412	01	G	G	N	GOUGLER EMPLOYEES REC.CA	4485 EDSON RD.	KENT	OH	7.302	30
325	6741412	01	G	G	N	MOTOR FREIGHT AKRON TERM	4341 MOGADORE ROAD	KENT	OH	6.265	108
327	6748612	01	G	G	N	HOL-HI DRIVING RANGE	85 VAUGHN ROAD	AKRON	OH	8.794	50
331	7776812	01	G	G	N	BRIMFIELD ELEMENTARY SCH	4182 SR 43	BRIMFIELD	OH	6.806	695
333	6732112	01	G	G	P	COPLEY HIGH SCHOOL	3807 RIDGEWOOD ROAD	COPLEY	OH	14.295	1,025
334	7774612	01	G	G	P	KNIGHTS INN-KENT	4423 ST. RT. 43	KENT	OH	6.566	150
337	6745012	01	G	G	N	METROPKS-CASCADE VALLEY	975 TREATY LINE ROAD	AKRON	OH	8.654	75
340	7782112	01	G	G	N	B.P. OIL - KENT	4415 SR 43	KENT	OH	6.540	500
343	6743812	01	G	G	N	FAIRLAWN SWIM&TENIS CLUB	P.O. BOX 5136	AKRON	OH	12.090	150
344	7722112	01	G	G	N	CERTIFIED GAS STATION	4400 SR 43	BRIMFIELD	OH	6.420	200
347	6734712	01	G	G	N	RIDGEWOOD CORPORATE CENT	3810 RIDGEWOOD ROAD	AKRON	OH	14.075	60
349	7786712	01	G	G	P	GREEN HILLS GOLF	1105 TALLMADGE ROAD	BRIMFIELD	OH	6.188	100
351	6741512	01	G	G	N	SPEEDWAY 3632	10401 BRECKSVILLE ROAD	BRECKSVILLE	OH	6.352	850
353	6732512	01	G	G	N	KEN CARRIER GARAGE	4113 MOGADORE ROAD	KENT	OH	5.747	25
354	6744612	01	G	G	N	METROPOLITAN VET HOSP.	1053 S.CLEVELAND-MASSILLION R	COPLEY	OH	13.655	30
357	7738212	01	G	G	N	MAPLECREST GOLF COMPANY	219 TALLMADGE	KENT	OH	5.631	250
358	6747012	01	G	G	N	LAWSONS #5009	4081 SR#43	BRIMFIELD	OH	6.282	250
360	6746012	01	G	G	N	RON'S GARAGE	1303 TALLMADGE ROAD	BRIMFIELD	OH	6.210	30
362	6771712	01	G	G	N	TALLMADGE WELDING COMPAN	957 TALLMADGE ROAD	KENT	OH	6.169	30
364	6754812	01	G	G	N	REDMAN MOLD AND MACHINE	944 TALLMADGE ROAD	KENT	OH	5.605	25
367	6751512	01	G	G	N	CARTER COMPANIES	601 TALLMADGE ROAD	KENT	OH	5.738	180
368	6734312	01	G	G	P	BRIMFIELD SHEET METAL	3997 TALLMADGE ROAD	KENT	OH	6.125	25
372	6732312	01	G	G	N	FAITH UNITED METH. CH.	1235 TALLMADGE ROAD	BRIMFIELD	OH	6.105	150
373	6769312	01	G	G	N	WARTKO CONSTRUCTION CO	975 TALLMADGE ROAD	BRIMFIELD	OH	5.837	40
376	6756812	01	G	G	N	HILLTOP TAVERN	3101 RT#18 TALLMADGE ROAD	KENT	OH	8.463	25
378	6769712	01	G	G	N	OHIO TRUCK & TRAILER INC	3557 TALLMADGE	KENT	OH	8.980	35
380	6761612	01	G	G	N	EAST END WELDING	357 TALLMADGE RD.	KENT	OH	5.520	50
382	6777712	01	G	G	P	H&M RUBBER COMPANY	P.O. BOX 9	KENT	OH	5.530	53
384	6776812	01	G	G	N	EDINBURG SUNOCO STATION	6762 CH#18	ROOTSTOWN	OH	14.314	40
387	6739012	01	G	G	P	R&R INTERNATIONAL, INC.	1234 S.CLEVELAND-MASSILLION R	AKRON	OH	14.092	60

					EMAGENES ICE CREAM STAND	496 TALLMADGE ROAD	KENT	OH	5.543	25	
391	6740012	01	G	G	N	THOMAS HARDWARE	6773 TALLMADGE ROAD	RAVENNA	OH	14.517	50
393	6764712	01	G	G	N	KENNY CLEANERS	84 TALLMADGE ROAD	BRIMFIELD	OH	5.340	50
394	6744712	01	G	G	N	EDINBURG BARBER SHOP	4177 SR# 14	RAVENNA	OH	13.894	40
396	6772912	01	G	G	N	BRIMFIELD SUPPLY COMPANY	640 TALLMADGE ROAD	KENT	OH	5.601	25
398	6732412	01	G	G	N	EDINBURG UNIT CHURCH/SCH	4081 ROCK SPRING RD.	RAVENNA	OH	14.613	70
400	6777212	01	G	G	P	PRIME BODY SHOP	2100 TALLMADGE ROAD	KENT	OH	6.312	26
402	6750612	01	G	G	N	SAWMILL BUILDINGS	1245 S. CLEVELAND-MASSILLON	AKRON	OH	13.499	99
404	7787612	01	G	G	P	TWIN PINES MOTEL	6113 TALLMADGE ROAD	ROOTSTOWN	OH	12.480	30
407	6756012	01	G	G	N	BUY-RITE LUMBER	1315 S CLEVELAND-MASSILLON R	AKRON	OH	13.492	50
408	7778412	01	G	G	N	DRAUGHT HOUSE	1094 TALLMADGE ROAD	BRIMFIELD	OH	5.840	100
410	6738212	01	G	G	N	DONUT HUT	1064 TALLMADGE RD	KENT	OH	5.580	100
413	6755612	01	G	G	N	BRIMFIELD SHELL STATION	1302 TALLMADGE ROAD	BRIMFIELD	OH	6.134	100
415	6732612	01	G	G	N	VICTORY BAPTIST TEMPLE	4167 SR 43	BRIMFIELD	OH	5.988	40
417	6775112	01	G	G	N	BRIMFIELD POULTRY FARMS	1301 SANDY LAKE ROAD	RAVENNA	OH	6.966	150
418	6758712	01	G	G	N	MUNROE METAL SERVICE	357 TALLMADGE RD.	BRIMFIELD	OH	5.283	36
420	6781812	01	G	G	P	BRIMFIELD BP OIL STATION	1304 SR#18	BRIMFIELD	OH	5.903	100
423	6732712	01	G	G	N	GEORGOS PIZZA	6982 TALLMADGE RD.	ROOTSTOWN	OH	14.498	35
424	6776612	01	G	G	P	NOAH'S ARC CHILD CARE	PO BOX 59	ROOTSTOWN	OH	8.470	67
426	6779412	01	G	G	P	ROADWAY EXPRESS, INC	1275 OH AVE	COPLEY	OH	13.240	550
429	7787212	01	G	G	P	SULLY'S TAVERN	1299 TALLMADGE ROAD	BRIMFIELD	OH	5.885	75
430	6754512	01	G	G	N	CVS PHARMACY	P.O. BOX 4257	AKRON	OH	13.695	35
432	7772312	01	G	G	N	COTTAGE INN	3530 TALLMADGE ROAD	KENT	OH	8.766	30
433	6736112	01	G	G	N	EDINBURGH TOWNSHIP HALL	6727 TALLMADGE ROAD	ROOTSTOWN	OH	14.247	25
436	6769112	01	G	G	N	RIDGELEAWN INN	1110 TALLMADGE RD.	BRIMFIELD	OH	5.468	40
437	6751612	01	G	G	N	DAIRY QUEEN-EDINBURG	4009 SR#14	ROOTSTOWN	OH	13.975	300
439	6738912	01	G	G	N	CAROLYN THOMAS FIGURE SA	3755 COPLEY ROAD	AKRON	OH	13.908	135
442	7778512	01	G	G	P	DOWNING ENTERPRISES INC.	1120 JACOBY ROAD	COPLEY	OH	12.577	48
445	7785812	01	G	G	P	POLYSAR INC.	1122 JACOBY ROAD	COPLEY	OH	12.591	67
447	7785912	01	G	G	P	BUY-RITE LUMBER	1315 S CLEV-MASSILLON, BOX 42	COPLEY	OH	13.517	25
449	7790312	01	G	G	P	ROSE LOUNGE	3219 COPLEY ROAD	COPLEY	OH	12.761	200
452	7767812	01	G	G	N	COPLEY COMMUNITY CENTER	1278 SUNSET DRIVE	COPLEY	OH	13.617	200
453	7722212	01	G	G	N	B & W CONSTRUCTION CO.	90 E TUSCARAWAS AVE PO BOX 6	BARBERTON	OH	13.126	120
456	7790912	01	G	G	P	COPLEY POLICE DEPARTMENT	1280 SUNSET DRIVE	COPLEY	OH	13.610	25
459	7796412	01	G	G	N	GHENT ACADEMY FOR BOYS	3745 COPLEY ROAD	COPLEY	OH	13.812	65
460	7722312	01	G	G	P	MULTIBASE	3835 COPLEY ROAD	COPLEY	OH	14.002	45
463	7788012	01	G	G	P	GERMAN FAMILY SOCIETY	3871 RANFIELD ROAD	BRIMFIELD	OH	6.017	100
464	6741212	01	G	G	N	THE COPPER KETTLE	1436 S CLEVELAND-MASSILLON RO	COPLEY	OH	13.514	60
467	7721312	01	G	G	N	SAVE 4 STORE	3956 STE.RTE.43	KENT	OH	5.758	47

472 7778612	01 G	G	N	COPLEY SQUARE BUILDING	3636 COPLEY ROAD	AKRON	OH	13.649	100
473 6746812	01 G	G	N	LESTER COGGINS TRUCKING	3848 SR#14	ROOTSTOWN	OH	13.907	25
476 7783912	01 G	G	N	COPLEY UNITED METHODIST	1518 S CLEVELAND-MASSILLON R	COPLEY	OH	12.502	175
477 7779212	01 G	G	N	PLEVRIS AUTO SERVICE	3902 COPLEY ROAD	AKRON	OH	13.107	25
479 7721612	01 G	G	N	X.T.C.	1167 BRITTAIN RD.	AKRON	OH	5.686	200
481 7776212	01 G	G	N	BANK ONE AKRON N.A.	1410 SOUTH CLEVELAND-MASSILL COPLEY		OH	13.547	200
484 7779112	01 G	G	N	RIZZI FOOD COMPANY, INC.	2809 COPLEY ROAD	COPLEY	OH	12.012	128
486 7797912	01 G	G	N	BURNS MEDICAL OFFICE	2839 COPLEY ROAD	COPLEY	OH	12.078	30
487 7790112	01 G	G	N	COPLEY BOWL-A-RAMA	8910 CROW ROAD	LITCHFIELD	OH	12.148	30
490 7793012	01 G	G	P	COPLEY FAIRLAWN MID SCH-	1531 CLEVELAND-MASSILLON RD	COPLEY	OH	13.500	500
491 7777212	01 G	G	P	COPLEY MIDDLE SCH-WELL 1	1531 SOUTH CLEVELAND-MASSILL COPLEY		OH	13.500	375
493 6754612	01 G	G	N	SUNNY HILLS GOLF & REC.	270 WILSON AVE.	TALLMADGE	OH	4.843	200
495 6735212	01 G	G	N	CITY BANK OF KENT BRIMFD	4023 SR#43	KENT	OH	5.382	70
496 7775012	01 G	G	P	COPLEY FAIRLAWN MID SCH-	1531 CLEVELAND-MASSILLON ROA	COPLEY	OH	13.466	500
499 6768512	01 G	G	N	BROWNIES GARAGE	3691 SR# 43	KENT	OH	5.318	25
500 7789912	01 G	G	N	GROUP FOUR MANAGEMENT CO	2830 COPLEY RD, PO BOX 4131	AKRON	OH	12.166	25
503 7789812	01 G	G	N	HOLLAND OIL #30	2806 COPLEY ROAD	COPLEY	OH	12.118	25
506 7775112	01 G	G	N	BUON APPETITO PIZZERIA	1442 SOUTH CLEVELAND-MASSILL COPLEY		OH	13.447	50
508 7786412	01 G	G	P	VALLEY ROCCO MIXING	P.O. BOX 4240	COPLEY	OH	13.135	45
510 7790012	01 G	G	N	CHRIST REFORMED CHURCH	2625 COPLEY ROAD	COPLEY	OH	11.765	125
511 7793512	01 G	G	P	KARMAN RUBBER CO.	2331 COPLEY ROAD	AKRON	OH	11.292	67
514 6731912	01 G	G	N	BRIM-PARK DRIVING RANGE	1818 OLD FORGE ROAD	MOGADORE	OH	5.782	35
517 6759512	01 G	G	N	FAHRNYS LAWN AND GARDEN	3297 SR 44	ROOTSTOWN	OH	9.087	30
519 7795612	01 G	G	P	SPRING GARDEN WALDORF SC	1791 SOUTH JACOBY ROAD	COPLEY	OH	11.800	216
521 7723312	01 G	G	N	DUKE N DUCHESS #163	447 JAMES PARKWAY	NEWARK	OH	10.495	25
522 7774512	01 G	G	N	COPLEY TOWN HALL	1540 SOUTH CLEVELAND-MASSILL COPLEY		OH	13.378	30
524 7773212	01 G	G	P	ARROWHEAD ELEMENTARY SCH	1600 RALEIGH ROAD	COPLEY	OH	12.784	465
526 7787712	01 G	G	N	JACOBY ROAD SWIM CLUB	1907 JACOBY ROAD	COPLEY	OH	11.823	25
528 6737712	01 G	G	N	DON & KAYES DRIVE-IN	3266 SR 43	MOGADORE	OH	4.749	150
529 6747112	01 G	G	N	MAPLES	640 TALLMADGE RD.	BRIMFIELD	OH	8.873	175
532 6762812	01 G	G	N	ST. PETERS K OF C HALL	3487 OLD FORGE ROAD	ROOTSTOWN	OH	7.858	80
533 6735012	01 G	G	N	CHEROKEE PARK COMPANY	3064 SR 43	MOGADORE	OH	4.675	25
535 6740112	01 G	G	P	FIELD HIGH SCHOOL	2900 SR 43	MOGADORE	OH	4.545	560
537 6734412	01 G	G	P	CENTRAL ELEMENTARY SCH	1473 SAXE RD.	MOGADORE	OH	4.596	205
539 6740212	01 G	G	P	FIELD JR HIGH SCHOOL	1379 SAXE ROAD	MOGADORE	OH	4.482	660
543 6735112	01 G	G	N	CHURCH OF JC LDS-ROOTSTO	P.O. BOX 26322	FAIRVIEW PARK	OH	8.479	150
545 6748112	01 G	G	N	MOGADORE RESERVOIR-BOAT	2578 SR 43	MOGADORE	OH	3.680	120
548 6749412	01 G	G	N	COUNTRYSIDE CAMPGROUND	2687 SR 43	MOGADORE	OH	4.042	80
550 7791912	01 G	G	N	SPRINGFIELD TWP SUMMER C	2491 CANFIELD ROAD	AKRON	OH	3.335	60

552 6748212	01 G	G	N	MOGADORE RESERVOIR CAMP	1570 RAVENNA RD.	KENT	OH	4.239	50
553 6761212	01 G	G	N	MID-AMERICAN FOAM	2746 SR 44	ROOTSTOWN	OH	8.773	35
555 6748312	01 G	G	N	MOGADORE RESERVOIR - PRI	2578 SR 43	MOGADORE	OH	3.271	100
558 7722512	01 G	G	N	WOLF CREEK WINERY	2637 S. CLEVELAND-MASSILLON	NORTON	OH	12.309	96
560 6748012	01 G	G	N	MOGADORE RESERVOIR-BEACH	2578 SR 43	MOGADORE	OH	3.006	100
562 6731212	01 G	G	N	BARNEY'S DAIRY PARK	6773 WATERLOO RD.	ATWATER	OH	13.674	95
563 6730412	01 G	G	N	ANKOR INN	2618 SR 43	MOGADORE	OH	3.772	40
565 6752512	01 G	G	N	RUSTIC ACRES	5417 BASSETT ROAD	ATWATER	OH	10.888	25
567 6762413	01 G	G	N	ROLL-UPS INCORPORATED	2477 SR#44	ATWATER	OH	8.329	25
568 7776912	01 G	G	N	HOLLAND OIL # 12	1456 S. CLEVELAND-MASSILLON	COPLEY	OH	13.041	25
570 7797212	01 G	G	N	LOYAL OAK GOLF CRSE-24T	2909 CLEVELAND-MASSILLON ROA	NORTON	OH	12.069	25
573 7797712	01 G	G	N	LOYAL OAK LAKE PK-BATHHS	2678 S. HAMETOWN ROAD	NORTON	OH	14.089	70
574 6748412	01 G	G	N	MOGADORE VFW POST 8487	383 RANDOLPH ROAD	MOGADORE	OH	2.601	100
576 7797512	01 G	G	N	LOYAL OAK LAKE PK-WELL#2	2678 S. HAMETOWN ROAD	NORTON	OH	14.039	60
578 6740722	01 G	G	N	FRIENDSHIP ACRES (BATH)	2210 SR#44	ATWATER	OH	8.711	175
581 7797312	01 G	G	N	LOYAL OAK GOLF CRSE-17F	2909 CLEVELAND-MASSILLON ROA	NORTON	OH	12.115	25
583 6764312	01 G	G	N	STROUP AND SONS, INC	1433 SR 43	MOGADORE	OH	3.727	25
586 6740612	01 G	G	N	FRIENDSHIIP ACRES CAMP	2210 SR#44	ATWATER	OH	9.039	175
588 7797612	01 G	G	N	LOYAL OAK LAKE PK-WELL#3	2678 S. HAMETOWN ROAD	NORTON	OH	14.070	60
590 7794212	01 G	G	N	LOYAL OAK LAKE PK-WELL#1	2678 S. HAMETOWN ROAD	NORTON	OH	14.257	80
591 7753712	01 G	G	N	LOYAL OAK GOLF CRSE-CLUB	2909 CLEVELAND-MASSILLON ROAD	NORTON	OH	12.305	350
594 7743012	01 G	G	N	SUMMIT SWIM CLUB	2996 CLEVELAND-MASSILLON ROA	NORTON	OH	12.462	950
595 7762312	01 G	G	N	LOYAL OAK LAKE PK-KIT	2678 S. HAMETOWN ROAD	NORTON	OH	13.996	250
597 7796912	01 G	G	N	KELLY'S SWIM CLUB	2996 S. CLEV.-MASSILLON ROAD	NORTON	OH	12.330	30
600 6747912	01 G	G	N	MOGADORE MUNICIPAL POOL	2185 MARTIN ROAD	MOGADORE	OH	2.242	150
601 6776412	01 G	G	N	SUFFIELD SPRINGS GOLF	2123 CONGRESS LAKE ROAD	MOGADORE	OH	4.268	100
605 7797112	01 G	G	N	LOYAL OAK GOLF CRSE-14T	2909 CLEVELAND-MASSILLON ROA	NORTON	OH	11.899	25
606 7797012	01 G	G	N	LOYAL OAK GOLF CRSE-4T	2909 CLEVELAND-MASSILLON ROA	NORTON	OH	12.042	25
608 7722612	01 G	G	P	AKRON BRICK AND BLOCK	3225 MOGADORE ROAD	AKRON	OH	1.774	45
611 7736112	01 G	G	N	LOYAL OAK AUTO SERVICE	3039 WADSWORTH ROAD	NORTON	OH	12.176	25
612 6751022	01 G	G	N	RANDOLPH FAIRGROUNDS-BRN	FAIRGROUNDS RD.	RANDOLPH	OH	8.649	70
615 7738612	01 G	G	N	WELCH'S DAIRY CREAM	3108 MONTERAY DRIVE	NORTON	OH	12.401	100
616 6749612	01 G	G	N	PARADISE LAKE CC.	1900 RANDOLPH ROAD	MOGADORE	OH	4.625	200
617 7736612	01 G	G	N	NORTON FOOD MART	4301 STOW ROAD	STOW	OH	12.758	25
619 6751112	01 G	G	N	RANDOLPH FAIRGROUNDS-RST	FAIRGROUNDS RD.	RANDOLPH	OH	8.955	100
622 7737412	01 G	G	N	OLDE LOYAL OAK TAVERN	3044 WADSWORTH ROAD	NORTON	OH	12.309	100
624 7743712	01 G	G	N	TOMASOS ITALIAN VILLA	3271 BARBER ROAD	NORTON	OH	10.819	108
625 6738712	01 G	G	P	EAST MANUFACTURING CORP	P.O. BOX 277	RANDOLPH	OH	8.125	400
627 7771312	01 G	G	N	NEST THEATER	3120 WADSWORTH ROAD	NORTON	OH	12.732	160

630 7742612	01 G	G	N	DUKE N DUGHESS #247	447 JAMES PARKWAY	NEWARK	OH	13.116	50
632 7743812	01 G	G	N	JOE'S FAT BOYS PIZZA INC	3274 CLEVELAND-MASSILON ROAD	NORTON	OH	12.274	100
633 7770212	01 G	G	N	TRINITY LUTHERAN CH.-L.	3281 S.CLEVELAND-MASSILLON R	NORTON	OH	12.142	300
636 7771512	01 G	G	N	VACCARO'S RESTAURANT	980 CANTON ROAD	AKRON	OH	1.979	200
637 7744612	01 G	G	N	WADE FORD	2835 BARBER RD	NORTON	OH	10.626	25
639 7736712	01 G	G	N	DAIRYMART #5014	3071 ALBRECHT	AKRON	OH	1.374	25
641 5258412	01 G	G	N	SPEEDWAY #3650	10401 BRECKSVILLE RD	BRECKSVILLE	OH	14.904	200
644 7760412	01 G	G	N	GRACE CATHEDRAL	1055 CANTON ROAD	AKRON	OH	1.793	800
645 6760212	01 G	G	N	JENIOR FORD SALES, INC	1673 SR 44	RANDOLPH	OH	8.022	35
648 7754212	01 G	G	P	NICOLARD'S DAY CARE	3148 LANDIS ROAD	NORTON	OH	12.900	62
650 7738912	01 G	G	P	NORTON MIDDLE SCHOOL	3390 CLEVELAND-MASSILLON ROA	NORTON	OH	12.276	685
651 6762012	01 G	G	N	RANDOLPH TOWN HALL	P.O. BOX 184	RANDOLPH	OH	8.002	50
654 7792112	01 G	G	N	BILL HWANG'S RESTAURANT	879 CANTON ROAD	AKRON	OH	1.805	100
656 7768212	01 G	G	P	SAWYERWOOD ELEMENTARY	2268 DELAWARE	AKRON	OH	2.270	149
658 6757712	01 G	G	N	MOGADORE BP OIL STATION	787 CLEVELAND AVENUE S	MOGADORE	OH	1.208	200
660 6760912	01 G	G	N	MANION HARDWARE	1301 DEPOT STREET	ATWATER	OH	11.940	100
661 6775212	01 G	G	P	WATERLOO MIDDLE SCHOOL	1776 S R 44	RANDOLPH	OH	8.708	450
663 7798612	01 G	G	N	GENE'S LOUNGE	3160 BARBER ROAD	NORTON	OH	10.767	100
665 6771212	01 G	G	N	RANDOLPH BARBER SHOP	3917 WATERLOO ROAD	RANDOLPH	OH	7.735	30
667 7772912	01 G	G	N	LADIES CHOICE HAIR FASH.	2691 E WATERLOO ROAD	AKRON	OH	1.942	30
669 6736912	01 G	G	N	DOUBLE D PLAZA	975 TALLMADGE ROAD	KENT	OH	2.952	300
671 7781612	01 G	G	N	ODOT STORAGE GARAGE	705 OAKWOOD STREET	RAVENNA	OH	13.312	25
673 6759712	01 G	G	N	1ST NATIONAL BANK-RAVENA	4000 WATERLOO	RANDOLPH	OH	8.223	80
675 6750812	01 G	G	N	CERTIFIED GAS STN. 311	3994 WATERLOO ROAD	RANDOLPH	OH	8.020	100
677 6761512	01 G	G	N	NAPA AUTOMOTIVE PARTS CO	3984 WATERLOO ROAD	RANDOLPH	OH	7.817	25
679 6746112	01 G	G	N	LAWSONS #5037	3966 WATERLOO ROAD	ATWATER	OH	7.759	100
682 7764812	01 G	G	N	PIZZA HUT-E. WATERLOO RD	2797 E.WATERLOO	AKRON	OH	1.705	600
684 6765812	01 G	G	N	WISE CHEVROLET INC	1572 SR 44	RANDOLPH	OH	8.236	30
686 6772112	01 G	G	N	GYPSY WAGON RESTAURANT	3636 HOMESTEAD RD	RAVENNA	OH	8.146	100
688 6742912	01 G	G	N	HILLSIDE GARDENS	2863 WATERLOO RD. BOX 134	RANDOLPH	OH	6.162	50
689 6770212	01 G	G	N	KNIGHTS OF COLUMBUS#2039	3188 WATERLOO RD	MOGADORE	OH	5.569	50
692 6751212	01 G	G	N	SARGE'S RANDOLPH INN	3961 WATERLOO ROAD	RANDOLPH	OH	8.203	25
694 7776312	01 G	G	N	GALA DRIVE IN THEATER	P.O. BOX 1230	NORTON	OH	2.468	175
695 6768912	01 G	G	N	DEBBIE-DO DOUGHNUTS	1539 SR#44	RANDOLPH	OH	7.869	300
698 7768012	01 G	G	P	ROOSEVELT ELEMENTARY SCH	3110 FARMDALE ROAD	AKRON	OH	0.559	398
700 6778312	01 G	G	N	DAIRY MART #5037-RANDOLP	4039 REIMER RD.	NORTON	OH	6.637	610
702 6753912	01 G	G	P	ST JOSEPH SCHOOL	2617 WATERLOO ROAD	MOGADORE	OH	5.637	246
704 7744812	01 G	G	N	STETSON SALOON	3530 EAST WATERLOO ROAD	AKRON	OH	2.243	130
707 6763012	01 G	G	N	SUNOCO MINI MART-RANDOLP	3499 W. BROAD STREET	COLUMBUS	OH	7.997	25

708 7736312	01 G	G	N	DAY BREAKER'S	3709 CLEVELAND-MASSILLON ROA NORTON	OH	12.315	100
710 7759712	01 G	G	N	GRACE BRETHREN CHURCH -	3970 S CLEVELAND-MASSILLON R NORTON	OH	12.330	450
714 7742912	01 G	G	P	SPRING HILL JUNIOR HIGH	660 LESSIG ROAD	AKRON	1.003	615
716 7775512	01 G	G	N	COUNTRY CRISP	1093 CANTON ROAD	AKRON	1.344	30
717 7790612	01 G	G	N	SPRINGFIELD TWP TWN HALL	2459 CANFIELD ROAD	AKRON	1.924	25
719 7791812	01 G	G	N	SPRINGFIELD TWP ROAD DEP	2465 CANFIELD ROAD	AKRON	1.938	25
721 7720512	01 G	G	N	MCDONALDS-CANTON RD.	400 WEST MARKET STREET	AKRON	1.481	500
723 6735612	01 G	G	N	COLONIAL MOTEL	827 SOUTH CLEVELAND ROAD	MOGADORE	0.889	100
725 7733812	01 G	G	N	BIG JAKE'S INC.	958 CANTON ROAD	AKRON	1.235	300
727 7749412	01 G	G	N	SPRINGFIELD FIRE DEPT	2454 E WATERLOO ROAD	AKRON	2.301	40
729 7798412	01 G	G	N	HOLLAND OIL #51	791 N. CLEVELAND-MASSILLON R GHENT	OH	10.394	25
731 6756912	01 G	G	P	WATERLOO HIGH SCHOOL	1464 INDUSTRY ROAD	ATWATER	10.893	520
734 6762212	01 G	G	N	RANDOLPH FEED & SUPPLY	PO BOX 217,1477 SR 44	RANDOLPH	7.976	25
736 7723212	01 G	G	N	LEMBO'S	1186 CANTON ROAD	AKRON	1.290	130
739 7784212	01 G	G	N	NORTON PUBLIC LIBRARY	3930 S.CLEVELAND-MASSILLON R AKRON	OH	12.278	50
740 7777412	01 G	G	N	CERTIFIED GAS COMPANY-1	2193 WATERLOO ROAD	AKRON	1.744	100
743 6776712	01 G	G	P	OUR COUNTRY PRESCHOOL	2345 BIXLER DR.	MOGADORE	2.987	47
745 7799512	01 G	G	N	SPEEDWAY GAS UNIT #3633	207 WALTER STREET	SPRINGFIELD	1.225	50
747 7723812	01 G	G	N	WENDY'S-CANTON ROAD	3570 FOREST LAKE DR.-SUITE 1 UNIONTOWN	OH	1.249	84
748 6758912	01 G	G	N	BRIMFIELD LION CLUB PARK	LIONS DEN ROAD	BRIMFIELD	3.419	50
751 6754412	01 G	G	N	SUFFIELD IGA	1320 SR 43	SUFFIELD	3.100	200
753 7763612	01 G	G	N	SPRINGFIELD TWP-SENIOR C	2491 CANFIELD ROAD	AKRON	1.302	60
755 6762712	01 G	G	N	S AND S REPAIR	1295 WATERLOO ROAD	SUFFIELD	3.186	30
757 6750212	01 G	G	N	HUNTER OUTLET STORE	1317 WATERLOO ROAD	SUFFIELD	3.228	50
759 6772612	01 G	G	N	WINGFOOT BOWMEN ARCHERY	415 WATERLOO ROAD	MOGADORE	1.392	40
760 6741712	01 G	G	N	H M MILLER CONST COMPANY	1219 WATERLOO ROAD	SUFFIELD	2.836	25
763 6771312	01 G	G	N	RAVENNA SAVINGS-SUFFIELD	1273 SR 43	SUFFIELD	2.720	25
765 7740412	01 G	G	N	FARMER BOY RESTAURANT	1324 CANTON ROAD	AKRON	0.892	400
766 7788412	01 G	G	P	CLEVELAND AVE PROPERTIES	754 S CLEVELAND AVE.	MOGADORE	0.564	25
769 7730112	01 G	G	N	AMF AKRON LANES	2911 EAST WATERLOO ROAD	AKRON	1.106	200
770 6741812	01 G	G	N	HAMAD TIRE COMPANY	6755 WATERLOO ROAD	ATWATER	13.055	35
773 6740412	01 G	G	N	FLAMINGO MOTEL	6893 WATERLOO ROAD	ATWATER	13.810	30
774 7742712	01 G	G	N	BP OIL STATION #05650	3705 CLEVELAND-MASSILLON ROAD NORTON	OH	12.245	30
777 6736812	01 G	G	N	CUT N CURL BEAUTY SHOP	1239 MAPLE STREET	ATWATER	12.547	30
778 6758312	01 G	G	N	ABBE BOOT & SADDLERY SHP	6163 WATERLOO ROAD	ATWATER	12.242	30
781 7736412	01 G	G	N	CVS STORE #4312	1225 CANTON ROAD	AKRON	1.215	25
782 6760112	01 G	G	N	HORNING TIRE DISTRIBUTOR	4042 WATERLOO ROAD	RANDOLPH	8.510	25
785 6749312	01 G	G	N	OLD MILL INN	1485 SR 44	RANDOLPH	8.045	100
786 6772312	01 G	G	N	UNITED CHURCH OF CHRIST	1292 WATERLOO ROAD	MOGADORE	3.122	200

789	6769612	01	G	G	N	HIGHLANDER LAUNDRAMAT	6785 WATERLOO ROAD	ATWATER	OH	12.228	80
791	6764212	01	G	G	N	SUFFIELD FELLOWSHIP CH	1669 WATERLOO ROAD	SUFFIELD	OH	3.224	300
792	6758012	01	G	G	N	SUFFIELD TOWNSHIP HALL	1262 WATERLOO ROAD	SUFFIELD	OH	2.846	50
795	6756512	01	G	G	N	WADSWORTH SASH AND DOOR	546 WATERLOO ROAD	MOGADORE	OH	1.757	28
797	7756912	01	G	G	N	AKRON AUTO AUCTION	2471 LEY DRIVE	AKRON	OH	6.579	50
798	6740312	01	G	G	P	FIRST BAPTIST CHURCH SCH	6498 WATERLOO ROAD	ATWATER	OH	12.897	150
800	6757912	01	G	G	N	SUFFIELD INN	1260 SR 43	SUFFIELD	OH	2.789	200
803	6777612	01	G	G	N	DAIRY MART #5144-ATWATER	ONE VISION DR.	ENFIELD	CT	13.391	215
804	6736012	01	G	G	N	COPELAND'S LANDING	698 EAST WATERLOO ROAD	MOGADORE	OH	2.035	35
806	6773512	01	G	G	N	FIRST BAPTIST CH-ATWATER	6498 WATERLOO ROAD	ATWATER	OH	12.869	70
808	7731112	01	G	G	N	BROOKSIDE COUNTRY CLUB	3727 GOLF COURSE DRIVE	NORTON	OH	13.389	350
811	6780812	01	G	G	N	RIES' VILLAGE RESTAURANT	1281 SR 183	ATWATER	OH	13.261	120
813	6754312	01	G	G	P	SUFFIELD ELEMENTARY SCH	1128 WATERLOO ROAD	MOGADORE	OH	2.660	500
814	6780712	01	G	G	N	ATWATER CHURCH/NAZARENE	6720 WATERLOO RD	ATWATER	OH	13.232	75
815	7756312	01	G	G	N	NORTON PUB	4020 CLEVELAND-MASSILON ROAD	NORTON	OH	12.358	50
818	7758512	01	G	G	N	CHURCH OF THE NAZARENE	1177 NORTON AVENUE	BARBERTON	OH	11.705	200
820	6775312	01	G	G	P	WATERLOO PRIMARY SCHOOL	6660 WATERLOO ROAD	ATWATER	OH	13.204	550
823	6744412	01	G	G	N	K BAR	1085 MISHLER ROAD	MOGADORE	OH	1.545	150
825	7788912	01	G	G	N	ARBY'S REST-GREENWICH ROA	3193 GREENWICH ROAD	NORTON	OH	12.446	500
826	6778512	01	G	G	N	SUFFIELD GIANT EAGLE	907 W. MAPLE	HARTVILLE	OH	3.015	950
828	6768112	01	G	G	N	ATWATER CONGREGATION CH.	1237 SR# 183	ATWATER	OH	12.989	125
831	6777312	01	G	G	N	BROOKSHIRE PARTY CENTER	1292 E. WATERLOO RD.	SUFFIELD	OH	3.060	25
833	6757112	01	G	G	N	WHISPERING PINES	P.O. BOX 15	ATWATER	OH	10.666	100
835	7763512	01	G	G	N	NORTON BAPTIST CHURCH	PO BOX 1229	NORTON	OH	12.213	300
837	7757212	01	G	G	N	APOSTOLIC CHRISTIAN CH.	744 ROTHROCK CIRCLE	COPLEY	OH	14.479	225
838	6767912	01	G	G	N	ATWATER TOWNSHIP HALL	1214 STE.RTE.183	ATWATER	OH	13.251	30
840	7759812	01	G	G	N	FIRST WESLEYAN CHURCH	2303 SOUTH MAIN STREET	AKRON	OH	6.320	70
843	7779012	01	G	G	N	CITY OF NORTON-ADMINISTR	4060 COLUMBIA WOODS ROAD	NORTON	OH	13.187	50
844	6758812	01	G	G	N	BRIMFIELD TOWNSHIP PARK	1640 TALLMADGE ROAD	BRIMFIELD	OH	3.284	25
847	6744212	01	G	G	N	JINDRA'S LANDING	945 SR 43	MOGADORE	OH	2.640	200
850	6757412	01	G	G	N	GOODYEAR- WFL PARK	1144 EAST MARKET ST	AKRON	OH	2.295	300
854	7755812	01	G	G	N	SWEET HENRIE'S	1365 GARDNER BLVD.	NORTON	OH	12.084	200
856	7794412	01	G	G	N	SPEE-D-FOODS - S MAIN ST	2337 SOUTH MAIN STREET	AKRON	OH	6.353	50
858	6776312	01	G	G	N	SUFFIELD U.C.C. (CHURCH)	1115 S.R. 43	SUFFIELD	OH	2.964	150
859	6752912	01	G	G	N	SCHULTZ LAKE INC.	1100 INDUSTRY ROAD	ATWATER	OH	11.195	40
861	7788512	01	G	G	P	MAIN PARKWAY CENTER	38 ROCHE WAY	YOUNGSTOWN	OH	6.370	55
863	7735812	01	G	G	N	MEAL TICKET	1581 CANTON ROAD	AKRON	OH	0.568	100
866	6768212	01	G	G	N	BEAUTY CHATEAU	3340 EBERLY ROAD	HARTVILLE	OH	6.774	25
868	7765912	01	G	G	N	RED BARN RESTAURANT	2867 MANCHESTER ROAD	AKRON	OH	7.562	275

					EMPIRE PLASTICS		1946 TRAPAS AVENUE		AKRON		OH	4.730	100
871	7797812	01	G	G	P	EDWIN SHAW HOSPITAL	1621 FLICKINGER RD	AKRON	OH	1.056	530		
875	7704112	01	G	G	P	CHAPEL HILL CHRISTIAN SC	946 E TURKEYFOOT LAKE RD	AKRON	OH	6.500	238		
877	7774212	01	G	G	N	AIRPORT VFW	1649 KRUMROY ROAD	AKRON	OH	3.290	50		
881	7793312	01	G	G	N	SPRINGFIELD BAND&FOOTBAL	2960 SANITARIUM ROAD	AKRON	OH	0.895	40		
883	7795212	01	G	G	N	THOMPSON MEMORIAL CHURCH	994 SWARTZ ROAD	AKRON	OH	4.693	100		
884	7771612	01	G	G	N	COYOTES	1575 MASSILLON ROAD	AKRON	OH	2.958	95		
887	7771912	01	G	G	P	WOODBINE OFFICE BUILDING	4322 CLEVELAND-MASSILLON ROA BARBERTON	OH	12.346	30			
888	7784012	01	G	G	P	SPRINGFIELD TRAINING & W	89 EAST HOWE RD.	TALLMADGE	OH	3.169	220		
891	7798112	01	G	G	N	METROPKS-FIRESTONE PAVIL	975 TREATY LINE ROAD	AKRON	OH	6.139	150		
892	7759412	01	G	G	N	MGR,COUNTRY MARKET	1611 MASSILLON ROAD	AKRON	OH	3.017	25		
895	7792712	01	G	G	P	ROBERTS EXPRESS SERVICE	2088 S ARLINGTON RD PO BOX71 AKRON	OH	4.756	150			
896	7784612	01	G	G	P	ROBERTS EXPRESS, INC	2088 S ARLINGTON RD,PO BOX71 AKRON	OH	4.756	150			
898	7799912	01	G	G	N	METROPKS-TUSCARAWAS SHEL	975 TREATY LINE ROAD	AKRON	OH	5.833	75		
900	7758412	01	G	G	N	THEO'S	1660 MASSILLON ROAD	AKRON	OH	3.354	25		
902	6730112	01	G	G	N	ADVANCED TECHNOLOGY CENT	841 WINGFOOT LAKE ROAD	MOGADORE	OH	2.357	200		
905	7799412	01	G	G	N	SPEEDWAY GAS UNIT #3308	207 WALTER STREET	SPRINGFIELD	OH	6.166	25		
906	7724012	01	G	G	N	METROPKS-HARRINGTON ROAD	975 TREATY LINE ROAD	AKRON	OH	5.909	300		
909	7798212	01	G	G	N	HOLLAND OIL #26	3357 MANCHESTER ROAD	AKRON	OH	8.957	25		
910	7784812	01	G	G	P	SCHOTT METAL PRODUCTS	2225 LEE	AKRON	OH	4.469	25		
913	7784912	01	G	G	P	SCHOTT METAL PRODUCTS	2225 LEE	AKRON	OH	4.469	25		
915	6738312	01	G	G	N	INDIAN LAKES CAMPGROUND	672 STROUP ROAD	ATWATER	OH	12.138	45		
916	7761812	01	G	G	N	DAIRYMART #5078	1690 MASSILLON ROAD	AKRON	OH	3.425	25		
919	7798012	01	G	G	N	PIZZA HUT-S. ARLINGTON	2916 S.ARLINGTON ROAD	AKRON	OH	4.770	600		
921	6750912	01	G	G	N	RANDOLPH CHRISTIAN CH	P.O. BOX 341	RANDOLPH	OH	8.086	200		
923	7765312	01	G	G	N	KC'S LAKES LOUNGE	3420 MANCHESTER ROAD	AKRON	OH	8.145	200		
924	7759912	01	G	G	N	FIRESTONE CC/W.CRS.PAVIL	452 EAST WARNER ROAD	AKRON	OH	5.371	100		
926	7795912	01	G	G	N	FIRESTONE CC/SOUTH CORSE	452 EAST WARNER ROAD	AKRON	OH	5.588	25		
928	7757412	01	G	G	N	FREEDOM RD.COMM.CENTER	2418 S. ARLINGTON STREET	AKRON	OH	4.837	200		
931	7795812	01	G	G	P	DIY HOME WAREHOUSE	2234 SOUTH ARLINGTON ST	AKRON	OH	4.805	27		
932	7786212	01	G	G	P	FIRESTONE COUNTRY CLUB	452 E. WARNER ROAD	AKRON	OH	5.591	150		
934	7793612	01	G	G	N	FIRESTONE CC/PUB.DRIVE R	452 EAST WARNER ROAD	AKRON	OH	5.591	25		
938	7772112	01	G	G	P	YOUNG ELEMENTARY SCHOOL	3258 NIDOVER DRIVE	AKRON	OH	1.448	378		
939	7756812	01	G	G	N	PORTAGE LAKES ROOT BEER	1024 SWIGART ROAD	BARBERTON	OH	7.797	350		
942	7752612	01	G	G	N	HOUSEMAN IGA GROCERY	130 THIRTY-FIRST STREET	NORTON	OH	12.484	110		
943	7774012	01	G	G	P	BOYER KINDERGARTEN CENTE	2240 PICKLE RD	AKRON	OH	3.771	263		
946	7760912	01	G	G	N	OFFICE MOTEL	1922 MASSILLON ROAD	AKRON	OH	3.577	25		
948	6758412	01	G	G	N	ALLDREDGE BODY SHOP	482 INDUSTRY ROAD	ATWATER	OH	11.000	25		
949	7721812	01	G	G	N	FIRESTONE CC-SO CRSE RR1	452 E. WARNER ROAD	AKRON	OH	5.840	100		

952 7720312	01 G	G	N	MR. HERO RESTAURANT	3454 MANCHESTER ROAD	AKRON	OH	8.195	250
953 7721512	01 G	G	P	BARBERTON BAPTIST TEMPLE	4774 S. HAMETOWN ROAD	NORTON	OH	13.989	100
956 7761712	01 G	G	P	LAKEVIEW ELEMENTARY SCL.	2910 SOUTH MAIN STREET	AKRON	OH	6.540	275
957 7782712	01 G	G	N	PORTAGE LAKES MEDICAL	3515 MANCHESTER ROAD	AKRON	OH	8.088	50
959 7747512	01 G	G	N	HONEYMOON DONUTS	372 VALENTINES BROOK	MUNROE FALLS	OH	8.231	150
962 7765412	01 G	G	N	PETE'S PORTAGE TWN TAVRN	3090 S.MAIN STREET	AKRON	OH	6.338	67
963 7721912	01 G	G	N	FIRESTONE CC-SO CRSE RR2	452 E. WARNER ROAD	AKRON	OH	5.656	100
965 7741712	01 G	G	N	SHERMAN CHURCH OF CHRIST	4041 JOHNSON ROAD	NORTON	OH	13.735	300
967 6759612	01 G	G	N	FEISTYS AUTOMOTIVE, INC.	4290 LAUBERT ROAD	ATWATER	OH	8.682	25
970 7740312	01 G	G	N	SIR DUDLEY'S SPORTS PUB	2468 S.ARLINGTOM STREET	AKRON	OH	5.077	125
972 6760812	01 G	G	N	MAINT SHOP CITY OF AKRON	936 OLD FORGE ROAD	KENT	OH	3.195	25
974 7741812	01 G	G	P	SHERMAN ELEMENTARY SCH	4774 S HAMETON ROAD	NORTON	OH	14.030	310
976 7794812	01 G	G	P	NORTON 21	4128 CLEVELAND-MASSILLON ROA	NORTON	OH	14.455	60
977 7755512	01 G	G	N	SHERMAN MEATS	3998 JOHNSON ROAD	NORTON	OH	13.709	51
979 7793412	01 G	G	N	ODNR - DISTRICT 3	912 PORTAGE LAKE DRIVE	AKRON	OH	7.761	25
981 7735112	01 G	G	N	HANDY JIMS	1174 PORTAGE LAKE DRIVE	AKRON	OH	7.249	125
983 7767912	01 G	G	N	ROSE VILLA RESTAURANT	368 PORTAGE LAKES DRIVE	AKRON	OH	7.034	375
985 7768312	01 G	G	P	SCHROP JUNIOR HIGH SCH	2215 PICKLE ROAD	AKRON	OH	3.996	535
987 7760612	01 G	G	P	HEAVENLY HIGHWAY NURSERY	2315 MASSILLON RD	AKRON	OH	3.443	32
989 7775412	01 G	G	N	COMMUNITY BAPTIST CHURCH	1695 MASSILLON ROAD	AKRON	OH	3.465	150
991 7754612	01 G	G	N	OLD STONE JAIL	5640 WOOSTER ROAD	NORTON	OH	13.227	100
993 7788212	01 G	G	P	ARLINGTON ROAD COMMONS	2717 ARLINGTON RD	AKRON	OH	5.013	50
996 7738412	01 G	G	P	HEAD START	1639 KILLIAN	AKRON	OH	3.788	178
998 7764212	01 G	G	N	THE HARBOR	562 PORTAGE LAKE DRIVE	AKRON	OH	7.350	260
999 7799012	01 G	G	P	AMERICAN FREIGHTWAYS	678 KILLIAN RD	AKRON	OH	5.477	50
1002 7768512	01 G	G	N	CLUB DESIREE'S	4951 WOOSTER ROAD	NORTON	OH	13.382	125
1004 6731712	01 G	G	N	BOB'S PIZZA	1539 SR 44	RANDOLPH	OH	8.457	120
1005 6730812	01 G	G	N	BILL'S TAVERN	4 RAVENNA ROAD	HARTVILLE	OH	6.249	25
1008 6768412	01 G	G	N	BETHANY MENNONITE CHURCH	10924 MOGADORE AVE	UNIONTOWN	OH	5.980	150
1010 7743612	01 G	G	N	TRINITY CH OF NAZARENE	2780 CANTON ROAD	AKRON	OH	2.208	103
1013 7794512	01 G	G	P	PORTAGE LAKES PLAZA	99 N. COLLEGE	AKRON	OH	7.221	42
1015 7764512	01 G	G	N	PAV'S CREAMERY	3769 MANCHESTER ROAD	AKRON	OH	8.240	150
1016 7787512	01 G	G	P	2800 ARLINGTON ST. BUILD	2800 ARLINGTON BUILDING	AKRON	OH	5.103	30
1018 7773312	01 G	G	N	SPRGFLD ASSEMBLY OF GOD	1551 CANTON ROAD	AKRON	OH	3.813	300
1020 7775612	01 G	G	P	COTTAGE GROVE ELEM SCH	3185 DAISY AVENUE	AKRON	OH	5.917	400
1023 7723412	01 G	G	N	DUKE N DUCHESS #164	447 JAMES PARKWAY	NEWARK	OH	3.765	25
1025 7764712	01 G	G	N	PITNEY-BOWES	2828 SOUTH ARLINGTON STREET	AKRON	OH	5.243	40
1026 7738512	01 G	G	N	BULLDOG'S CLUBHOUSE	2437 CANTON RD	AKRON	OH	2.247	100
1028 7792912	01 G	G	N	WHITE CASTLE (ARLINGTON)	2900 ARLINGTON STREET	AKRON	OH	5.158	1,400

1030	7768912	01	G	G	N	SIMONS RESTAURANT	516 PORTAGE LAKE DRIVE	AKRON	OH	7.242	850
1032	7793712	01	G	G	N	KENNY ROGERS ROASTERS	2882 ARLINGTON RD	AKRON	OH	5.153	84
1035	7706112	01	G	G	P	IDEAL NURSING HOME	5671 WOOSTER ROAD	NORTON	OH	13.315	46
1036	7792212	01	G	G	P	IBH MULTI PURPOSE BLDG	3455 SOUTH MAIN STREET	AKRON	OH	6.501	40
1039	7774412	01	G	G	N	CLEARVIEW UNITED METHODI	1733 MASSILLON ROAD	AKRON	OH	3.986	75
1040	7761212	01	G	G	P	K MARY STORE NO.4414	160 S. UNIVERSITY DR. SUITE	PLANTATION	FL	5.002	56
1043	7791612	01	G	G	P	WAL-MART #1911	2887 SOUTH ARLINGTON ROAD	AKRON	OH	5.093	120
1045	7792812	01	G	G	N	BIG BOY RESTAURANT	5901 MAYFIELD ROAD	MAYFIELD HEIGHTS	OH	5.166	422
1048	7731212	01	G	G	N	BRASKO'S COVENTRY TAVERN	1644 W. TURKEYFOOT LAKE ROAD	BARBERTON	OH	9.634	25
1050	7780512	01	G	G	N	FRIENDLY ICE CREAM CORP.	2934 SOUTH ARLINGTON	AKRON	OH	5.274	127
1051	7796012	01	G	G	N	ST.FRANCIS CHURCH	4009 MANCHESTER ROAD	AKRON	OH	8.305	750
1052	7788612	01	G	G	N	RED ROOF INN-ARLINGTON	2939 ARLINGTON ROAD	AKRON	OH	5.155	70
1056	7741912	01	G	G	P	ST. FRANCIS DE SALES SCH	4009 MANCHESTER ROAD	AKRON	OH	8.297	492
1059	7757012	01	G	G	N	AKRON YACHT CLUB	3575 SOUTH MAIN STREET	AKRON	OH	6.611	35
1061	7796712	01	G	G	N	COMFORT INN - ARLINGTON	2873 S. ARLINGTON ROAD	AKRON	OH	5.208	75
1063	7754822	01	G	G	P	HOLIDAY INN - AKRON SOUT	2940 CHENOWETH ROAD	AKRON	OH	5.078	30
1065	7762412	01	G	G	N	MAGIC CITY DRIVE-IN THEA	P.O. BOX 11	WADSWORTH	OH	12.263	200
1067	7722812	01	G	G	N	GOODYEAR YACHT CLUB	1265 JOHN'S ROAD	CLINTON	OH	6.662	25
1070	7787812	01	G	G	P	WALLAC, INC.	DRAWER 4350	AKRON	OH	13.919	95
1071	7723512	01	G	G	N	BOB EVANS RESTAURANT	3211 S.ARLINGTON ROAD	AKRON	OH	5.326	166
1075	7795312	01	G	G	N	TACO BELL-CANTON ROAD	1303 CANTON ROAD	AKRON	OH	5.388	62
1076	7780612	01	G	G	N	TACO BELL-S. ARLINGTON	3217 SOUTH ARLINGTON ROAD	AKRON	OH	5.388	62
1078	7657612	01	G	G	P	NEW BALTIMORE CHURCH & S	7761 PONTIUS ROAD	ALLIANCE	OH	8.696	42
1081	7720716	01	G	G	N	MCDONALDS-ARLINGTON RD.	400 WEST MARKET STREET	AKRON	OH	5.380	500
1082	7721112	01	G	G	P	RUBBER ASSOCIATES	1522 W. TURKEY LAKE RD.	BARBERTON	OH	9.429	115
1084	7788812	01	G	G	N	PORTAGE LAKES LIBRARY	4259 MANCHESTER ROAD	AKRON	OH	8.564	75
1087	7784112	01	G	G	N	BP OIL STATION #05512	3171 SOUTH ARLINGTON ROAD	AKRON	OH	5.443	75
1089	7723712	01	G	G	N	WENDY'S-ARLINGTON ROAD	3570 FOREST LAKE DR.-SUITE 1	UNIONTOWN	OH	5.428	92
1091	7758812	01	G	G	N	HILLS DEPARTMENT STORE	3200 SOUTH ARLINGTON ROAD	AKRON	OH	5.488	150
1094	7792012	01	G	G	P	DENNY'S RESTAURANT-ARLIN	2943 S. ARLINGTON ROAD	AKRON	OH	5.543	26
1095	7781912	01	G	G	P	PRIME TIME PRESCHOOL	700 E TURKEYFOOT LAKE ROAD	AKRON	OH	5.765	28
1097	7658812	01	G	G	N	ZELLERS AMLC #7	13494 DUQUETTE AVENUE N.E.	HARTVILLE	OH	7.033	24
1099	7723612	01	G	G	N	DAY INN-S.ARLINGTON	3237 S.ARLINGTON ROAD	AKRON	OH	5.623	200
1102	7772212	01	G	G	N	YOUR PIZZA SHOP	533 WEST TURKEYFOOT LAKE ROA	AKRON	OH	8.159	25
1103	7786912	01	G	G	P	HILLS DEPT STORE-ARLINGT	3200 SOUTH ARLINGTON RD	AKRON	OH	5.585	25
1105	7721712	01	G	G	N	LIBERTY COURT CONDOMINIU	3465 SO. ARLINGTON RD. SUITE	AKRON	OH	5.523	25
1107	7723012	01	G	G	N	GAS & OIL #15	1276 KRUMROY ROAD	AKRON	OH	6.869	25
1108	7744712	01	G	G	N	THE UPPER DECK	357 WEST TURKEYFOOT LAKE ROA	AKRON	OH	7.579	200
1111	7749912	01	G	G	P	DOUG CHEVROLET	3281 SOUTH ARLINGTON STREET	AKRON	OH	5.471	80

1113 7769112	01 G	G	N	BP OIL STATION #05512	3171 SOUTH ARLINGTON STREET	AKRON	OH	5.483	25
1115 7775912	01 G	G	N	BLACK DOG RESTAURANT	401 W.TURKEYFOOT LAKE ROAD	AKRON	OH	7.475	70
1118 7659112	01 G	G	N	ODNR-QUAIL HOLLOW ST PK	13340 CONGRESS LAKE RD	HARTVILLE	OH	6.149	80
1119 7671112	01 G	G	N	ODNR-QUAIL HOLLOW BIKE T	13340 CONGRESS LAKE RD	HARTVILLE	OH	6.149	25
1122 7720312	01 G	G	N	GAS & OIL INC #19	455 W.TURKEYFOOT LAKE RD	AKRON	OH	7.645	32
1123 8548512	01 G	G	N	VALLEY INN	15004 PORTAGE ST	DOYLESTOWN	OH	14.827	70
1126 8536012	01 G	G	N	DOYLESTOWN NAZARENE CH	15197 PORTAGE ST	DOYLESTOWN	OH	14.377	60
1127 7748512	01 G	G	P	OLD CHURCH PROFESSIONAL	3451 SOUTH ARLINGTON STREET	AKRON	OH	5.788	25
1129 7773012	01 G	G	N	ANTHE'S	4315 MANCHESTER ROAD	AKRON	OH	8.731	300
1131 7788712	01 G	G	N	JEHOVAH'S WITNESS-BARBER	2764 COPLEY ROAD	AKRON	OH	12.355	263
1133 7786312	01 G	G	P	MISS CAROL'S DAY CARE	344 W TURKEYFOOT LAKE RD	AKRON	OH	7.549	30
1136 7757312	01 G	G	N	B-K ROOT BEER DRIVE-IN	3929 SOUTH MAIN STREET	AKRON	OH	6.988	500
1137 7791512	01 G	G	P	RING AROUND THE ROSIE DA	3895 S. MAIN STREET	AKRON	OH	7.001	31
1140 7743912	01 G	G	P	TURKEYFOOT ELEMENTARY SC	530 WEST TURKEYFOOT LAKE ROA	AKRON	OH	7.859	435
1141 7764612	01 G	G	N	PIONEER PLASTICS, INC.	3330 MASSILLON ROAD	AKRON	OH	4.764	40
1143 7653912	01 G	G	P	LAKE CENTER CHRISTIAN SC	12893 KAUFMAN AVENUE NW	HARTVILLE	OH	3.892	411
1145 7796112	01 G	G	N	HILLCREST INN/CASTLEANEX	465 E. TURKEYFOOT LAKE ROAD	AKRON	OH	5.958	25
1146 7770712	01 G	G	N	TURKEYFOOT LAKES GOLF-3	294 WEST TURKEYFOOT LAKE ROA	AKRON	OH	7.630	150
1149 7772612	01 G	G	N	AKRON ROTARY CLUB-1	4460 REX LAKE DRIVE	AKRON	OH	8.434	70
1151 7721212	01 G	G	N	RITE AID - S. MAIN ST.	4053 S. MAIN ST.	GREEN	OH	7.008	200
1152 7770612	01 G	G	N	TURKEYFOOT LAKES GOLF-2	294 WEST TURKEYFOOT LAKE ROA	AKRON	OH	7.626	150
1154 7779412	01 G	G	N	ROYAL GARDENS	680 WEST TURKEYFOOT LAKE ROA	AKRON	OH	8.005	40
1157 7772712	01 G	G	N	AKRON ROTARY CLUB-2	4460 REX LAKE DRIVE	AKRON	OH	8.282	70
1160 7770512	01 G	G	N	TURKEYFOOT LAKES GOLF-1	294 WEST TURKEYFOOT LAKE ROA	AKRON	OH	7.660	100
1162 7784412	01 G	G	P	SOUTH MAIN CENTRE LTD	7530 LUCERNE DRIVE SUITE 101	CLEVELAND	OH	7.078	50
1163 7746512	01 G	G	N	FIRST BAPTIST CHURCH	3418 SOUTH ARLINGTON STREET	AKRON	OH	5.687	100
1165 7656312	01 G	G	N	UNIONTOWN BP	13066 CLEVELAND RD	UNIONTOWN	OH	3.514	25
1167 7770412	01 G	G	N	TURKEYFOOT ISLAND CLUB	4490 LAHM DR.	AKRON	OH	8.048	30
1169 7651812	01 G	G	N	ZELLERS AMLC #3	13494 DUQUETTE AVENUE N.E.	HARTVILLE	OH	6.511	40
1172 7655712	01 G	G	N	KAUFMAN CENTER	PO BOX 1051 12875 KAUFMAN AV	HARTVILLE	OH	3.987	204
1174 7796212	01 G	G	N	HILLCREST INN/BINGO HALL	443 E. TURKEYFOOT LAKE ROAD	AKRON	OH	6.002	400
1175 7701512	01 G	G	N	HILLCREST INN/INN	465 E.TURKEYFOOT LAKE ROAD	AKRON	OH	6.002	200
1177 7758612	01 G	G	N	CLARK BUILDING	767 EAST TURKEYFOOT LAKE ROA	AKRON	OH	6.014	75
1180 7798912	01 G	G	N	SIX-NINETEEN SHELL STN	2361 E TURKEYFOOT LAKE RD	AKRON	OH	3.963	60
1181 7653012	01 G	G	N	ZELLERS AMLC #2	13494 DUQUETTE AVENUE N.E.	HARTVILLE	OH	6.508	26
1184 7724312	01 G	G	N	G & L'S MOTEL	3145 MASSILLON ROAD	AKRON	OH	4.714	25
1185 7799212	01 G	G	N	LIBERTY GREEN PLAZA	525 N.CLEVELAND-MASSILLON RD	AKRON	OH	6.715	25
1187 7724112	01 G	G	N	STEVE'S MOTEL	1715 E. TURKEYFOOT LAKE ROAD	AKRON	OH	4.644	25
1191 7724212	01 G	G	N	MASSILLON ROAD MOTEL	3211 MASSILLON ROAD	AKRON	OH	4.762	45

1193	7787112	01	G	G	P	USF HOLLAND	3140 MASSILLON ROAD	AKRON	OH	4.824	176
1195	7664412	01	G	G	N	DAIRY MART-UNIONTOWN	13020 CLEVELAND AVE NW	UNIONTOWN	OH	3.673	25
1197	7770812	01	G	G	N	TURKEYFOOT SPORTSMAN CLU	4551 DUSTY'S ROAD	AKRON	OH	8.311	50
1198	7636512	01	G	G	N	BETTY'S FAMILY RESTAURAN	13435 RAVENNA	HARTVILLE	OH	8.690	25
1200	7652912	01	G	G	N	ZELLERS AMLC #1	13494 DUQUETTE AVENUE N.E.	HARTVILLE	OH	6.571	20
1202	7658112	01	G	G	P	ADVENT LUTHERAN LATCH KE	1516 EDISON STREET N.W.	UNIONTOWN	OH	4.174	151
1205	7786012	01	G	G	P	TRIPLE S MACHINE INC.	1546 E. TURKEYFOOT LAKE RD.	AKRON	OH	7.682	25
1206	7642712	01	G	G	N	BP OIL SERVICE STA 5953	105 S PROSPECT	HARTVILLE	OH	5.453	25
1208	7747712	01	G	G	N	LAKEVIEW CHURCH OF CHRIS	4613 SOUTH MAIN STREET	AKRON	OH	7.100	230
1213	7775712	01	G	G	N	CRAFTSMAN RECREATION CL.	4450 REX LAKE DRIVE	AKRON	OH	8.636	50
1214	7669012	01	G	G	P	HARTVILLE KITCHEN RESTAU	1015 EDISON AVENUE NW	HARTVILLE	OH	4.510	99
1219	7745212	01	G	G	N	EAST LIBERTY ASSEM.OFGOD	772 EAST TURKEYFOOT LAKE ROA AKRON		OH	6.289	100
1221	7771412	01	G	G	N	GREEN VALLEY METHODISTCH	620 EAST TURKEYFOOT LAKE ROA AKRON		OH	6.312	230
1222	7658612	01	G	G	N	ZELLERS AMLC #5	13494 DUQUETTE AVE. N.E.	HARTVILLE	OH	7.319	20
1225	7658712	01	G	G	N	ZELLERS AMLC #6	13494 DUQUETTE AVENUE N.E.	HARTVILLE	OH	6.613	40
1227	7735012	01	G	G	P	GRILL ELEMENTARY SCHOOL	6125 KUNGLE ROAD	CLINTON	OH	12.645	307
1229	7670012	01	G	G	N	CRYSTAL CAFE/BOSTON SQ	757 EDISON ST	HARTVILLE	OH	4.731	300
1232	7670412	01	G	G	N	ZELLERS MIGRANT CAMP #8	13494 DUQUETTE AVENUE NE	HARTVILLE	OH	5.995	25
1233	7655912	01	G	G	P	HARTVILLE CENTRE	907 WEST MAPLE STREET	HARTVILLE	OH	4.964	90
1239	7669312	01	G	G	N	NORTH PLAZA-HARTVILLE	1904 WEST MAIN STREET	LOUISVILLE	OH	5.280	300
1241	7662312	01	G	G	N	BYLER'S FLEA MARKET	960 EDISON ST	HARTVILLE	OH	4.678	200
1242	7659312	01	G	G	N	HARTVILLE FLEA MARKET	788 EDISON STREET	HARTVILLE	OH	4.748	950
1245	7670612	01	G	G	N	AULTMAN HOSPITAL FAMILY	2600 SIXTH STREET SW	CANTON	OH	5.027	74
1246	7656812	01	G	G	N	HARTVILLE PONDEROSA	871 W MAPLE ST	HARTVILLE	OH	4.993	362
1249	7739212	01	G	G	N	ODNR-PORTRAGE LK ST PK-P	5031 MANCHESTER ROAD	AKRON	OH	7.921	600
1250	7657112	01	G	G	N	ARBY'S HARTVILLE	903 WEST MAPLE STREET	HARTVILLE	OH	5.017	240
1253	7663312	01	G	G	N	HARTVILLE PIZZA HUT	925 W MAPLE ST	HARTVILLE	OH	5.008	250
1255	7654712	01	G	G	N	ZELLERS AMLC #4	13494 DUQUETTE AVE. N.E.	HARTVILLE	OH	7.140	7
1258	7655312	01	G	G	P	HARTVILLE PLASTICS, INC.	PO BOX 26517	AKRON	OH	5.610	150
1259	7668212	01	G	G	N	WENDY'S-HARTVILLE	915 WEST MAPLE STREET	HARTVILLE	OH	5.245	300
1261	7662212	01	G	G	N	HARTVILLE SPEEDWAY #3403	1100 W MAPLE	HARTVILLE	OH	4.973	700
1263	7661012	01	G	G	N	WAGLER'S HOME COOKING	12401 MARKET AVENUE NW	HARTVILLE	OH	4.804	50
1266	7670912	01	G	G	N	KENTUCKY FRIED CHICKEN	821 WEST MAPLE ST	HARTVILLE	OH	5.161	500
1267	7761112	01	G	G	N	JOB-RITE CONST.&POOL CO.	3554 S. ARLINGTON RD	AKRON	OH	6.052	35
1270	7663812	01	G	G	N	CARLO'S TRATTORIA	733 W MAPLE ST	HARTVILLE	OH	5.203	50
1271	7665312	01	G	G	N	BURGER KING-HARTVILLE	908 W MAPLE ST	HARTVILLE	OH	5.063	650
1273	7671412	01	G	G	N	HARTVILLE TRUE VALUE HAR	940 WEST MAPLE STREET	HARTVILLE	OH	5.021	90
1275	7787312	01	G	G	P	DELCO CORPORATION	3300 MASSILLON ROAD	AKRON	OH	5.185	54
1278	7786112	01	G	G	P	PIONEER PLASTICS CORP.	3330 MASSILLON RD.	AKRON	OH	5.173	80

1279	7671612	01	G	G	P	CLARKE FORD-MERCURY HART	5735 DARROW RD / PO BOX 2520	HUDSON	OH	5.365	60
1282	7642212	01	G	G	N	SCHONER CHEVROLET SALES	720 W.MAPLE	HARTVILLE	OH	5.257	60
1283	7669212	01	G	G	P	EDISON PARK PLAZA	1900 WEST MARKET STREET	AKRON	OH	5.178	167
1287	7636912	01	G	G	P	LAKE MIDDLE SCHOOL	12077 LISA AVENUE	HARTVILLE	OH	5.326	866
1288	7763112	01	G	G	N	MAYFAIR COUNTRY CLUB	2229 RABER ROAD	UNIONTOWN	OH	4.519	275
1291	7790812	01	G	G	P	BELGRADE GARDENS-SOUTH	3476 MASSILLON ROAD	UNIONTOWN	OH	5.269	40
1294	7739112	01	G	G	N	ODNR-PORTAGE LK ST PK-O	5031 MANCHESTER ROAD	AKRON	OH	12.355	600
1296	7791412	01	G	G	N	GASTOWN #3692	3540 S ARLINGTON ROAD	AKRON	OH	6.299	50
1298	7748012	01	G	G	N	MESSIAH LUTHERAN CHURCH	4700 SOUTH MAIN STREET	AKRON	OH	7.577	100
1299	7643312	01	G	G	N	PANTRY RESTAURANT	101 N PROSPECT	HARTVILLE	OH	5.789	250
1300	7637812	01	G	G	P	LEXINGTON ELEM. SCHOOL	10320 MOULIN AVENUE NE	ALLIANCE	OH	14.189	534
1302	7657312	01	G	G	P	THE LONGABERGER CO-HARTV	95 CHESTNUT STREET PO BOX 73	DRESDEN	OH	5.822	400
1303	7657012	01	G	G	P	F.E. SCHUMACHER CO.	200 MILL ST.	HARTVILLE	OH	5.870	130
1304	7654512	01	G	G	P	LAKE ELEMENTARY SCHOOL	12077 LISA AVENUE	HARTVILLE	OH	5.721	800
1308	7778212	01	G	G	N	ROYAL OAKS RESTAURANT	5188 MANCHESTER ROAD	AKRON	OH	9.658	70
1309	7770312	01	G	G	N	FRANKLIN PARK CIVIC CENT	655 LATHAM LANE	AKRON	OH	8.745	30
1311	7669612	01	G	G	N	HARTVILLE CH/BRETHREN	353 CRESTMONT	HARTVILLE	OH	5.511	200
1313	7720612	01	G	G	N	MCDONALDS-MANCHESTER RD.	400 WEST MARKET STREET	AKRON	OH	9.460	500
1315	7637412	01	G	G	N	DAIRY MART-HARTVILLE #53	260 S.PROSPECT	HARTVILLE	OH	5.826	700
1318	7720412	01	G	G	N	CHATTER BOX, INC.	5105 MANCHESTER ROAD	AKRON	OH	9.456	60
1319	7634612	01	G	G	N	FRONTIER RESTAURANT	PO BOX 848 418 E MAPLE	HARTVILLE	OH	6.096	200
1321	7656912	01	G	G	P	SCHUMACHER LUMBER	120 MILL ST.	HARTVILLE	OH	5.915	25
1323	7655112	01	G	G	P	NORTH AMERICAN MOLDED PR	P.O. BOX 552	HARTVILLE	OH	5.883	30
1324	7767212	01	G	G	N	RENDINO'S PIZZA	5197 MANCHESTER ROAD	AKRON	OH	9.384	50
1326	7768812	01	G	G	N	DANO'S LAKESIDE PUB	3910 SOUTH MAIN STREET	AKRON	OH	7.730	100
1329	7636712	01	G	G	N	LAKE VIEW GOLF COURSE	428 E.MAPLE	HARTVILLE	OH	6.129	100
1331	7658512	01	G	G	N	BRENCKLE FARMS MIGRANT C	5104 GRAENING RD NE	HARTVILLE	OH	7.247	30
1333	7724412	01	G	G	N	MANCHESTER PLAZA	5193 MANCHESTER ROAD	AKRON	OH	9.535	30
1336	7653812	01	G	G	P	HARTVILLE CHRISTIAN SCHO	10515 MARKET STREET	HARTVILLE	OH	5.939	53
1338	7762712	01	G	G	P	MANCHESTER TOOL COMPANY	5142 MANCHESTER RD.	AKRON	OH	9.763	150
1340	7770912	01	G	G	N	TURKEYFOOT LANES	3911 SOUTH MAIN STREET	AKRON	OH	8.047	80
1341	7799612	01	G	G	N	SPEEDWAY GAS UNIT #3672	207 WALTER STREET	SPRINGFIELD	OH	9.601	60
1343	7787012	01	G	G	P	DIEBOLD, INC	3800 TABS DRIVE	UNIONTOWN	OH	6.183	35
1346	7786512	01	G	G	P	CON-WAY CENTRAL EXPRESS	3733 MASSILLON ROAD	UNIONTOWN	OH	5.539	72
1348	7786612	01	G	G	P	MCAFEE TOOL AND DIE, INC	1717 BOETTLER ROAD	UNIONTOWN	OH	5.719	62
1350	7667912	01	G	G	N	TASTI CREME	4767 NAVARRE RD SW	CANTON	OH	4.741	38
1352	8557412	01	G	G	N	GAS & OIL INC #18	18575 EDWARDS RD	DOYLESTOWN	OH	14.116	100
1353	7780112	01	G	G	P	MAYFAIR JR ACADEMY 7TH D	2350 GRAYBILL ROAD	UNIONTOWN	OH	5.310	68
1355	7638412	01	G	G	P	MARLBORO ELEM. SCHOOL	10320 MOULIN AVENUE NE	ALLIANCE	OH	9.506	421

1358	7769012	01	G	G	N	SPRINGHILLS GOLF CLUB	6571 CLEVELAND MASSILLON ROA CLINTON	OH	12.692	200	
1362	7638312	01	G	G	N	MARLBORO CHRISTIAN CH	9383 EDISON	ALLIANCE	OH	10.817	200
1363	7630012	01	G	G	P	KELLY'S KIDS PRESCHOOL	510 SOUTH PROSPECT P O BOX 7	HARTVILLE	OH	6.204	31
1365	7666912	01	G	G	N	SEVEN HILLS GOLF	11700 WILLIAM PENN AVE	HARTVILLE	OH	7.327	150
1368	7654612	01	G	G	P	HARTVILLE ELEM SCHOOL	12077 LISA AVENUE	HARTVILLE	OH	6.177	490
1369	7650132	01	G	G	N	CLEARWATER PARK INC-POOL	12712 HOOVER AVE NW	UNIONTOWN	OH	12.458	150
1371	7650122	01	G	G	N	CLEARWATER PARK-BEACH	12712 HOOVER AVE NW	UNIONTOWN	OH	12.458	100
1372	7650112	01	G	G	N	CLEARWATER PARK INC CAMP	12712 HOOVER AVE NW	UNIONTOWN	OH	12.458	175
1375	7779912	01	G	G	P	GREENWOOD ELEMENTARY SCH	2250 GRAYBILL RD	UNIONTOWN	OH	5.536	733
1377	7757512	01	G	G	N	BOB'S ORCHARD INN	4353 SOUTH ARLINGTON ROAD	UNIONTOWN	OH	6.730	100
1379	7777612	01	G	G	N	FRANKLIN SPARKLE MARKET	5461 MANCHESTER ROAD	AKRON	OH	9.711	25
1383	7758012	01	G	G	N	BURGER KING #394	3180 S. ARLINGTON RD.	AKRON	OH	6.803	800
1384	7631112	01	G	G	N	EDISON STATION	1277 EDISON ST NE	HARTVILLE	OH	5.757	200
1387	7791712	01	G	G	N	RAINTREE GOLF COURSE	4350 MAYFAIR ROAD	UNIONTOWN	OH	5.392	200
1388	7739712	01	G	G	N	ODOT-REST AREA 4-33	705 OAKWOOD STREET	RAVENNA	OH	5.618	200
1390	7671212	01	G	G	N	THE CHAPEL IN MARLBORO	8700 SR 619 PO BOX 730	HARTVILLE	OH	10.562	550
1393	7660412	01	G	G	P	BUCKEYE PACKAGING, INC.	P O BOX 996	HARTVILLE	OH	11.224	104
1395	7663112	01	G	G	N	SABLE CREEK GOLF COURSE	5942 EDISON ST	HARTVILLE	OH	8.235	75
1396	7722912	01	G	G	N	LO BOY OIL, INC.	6171 MANCHESTER ROAD	AKRON	OH	9.931	25
1398	7760512	01	G	G	N	GREEN GABLE RESTAURANT	4062 MASSILLON ROAD	UNIONTOWN	OH	6.165	250
1400	7650322	01	G	G	N	CUTTY'S SUNSET CAMPS 1&2	8050 EDISON STREET-NE	LOUISVILLE	OH	10.240	124
1403	7669912	01	G	G	N	CUTTY'S SUNSET CAMP 3	8050 EDISON ST NE	LOUISVILLE	OH	10.240	50
1407	7762812	01	G	G	N	MANCHESTER UN.METH. CH.	5625 MANCHESTER ROAD	AKRON	OH	10.078	84
1410	7773412	01	G	G	N	B&D NIMISILA GARDENS INC	5010 SOUTH MAIN STREET	AKRON	OH	8.710	50
1411	7798812	01	G	G	N	KNACK'S SHELL STATION	5655 MANCHESTER RD	AKRON	OH	9.277	60
1414	7784512	01	G	G	N	CALVARY BIBLE CHURCH	4520 S ARLINGTON	UNIONTOWN	OH	7.143	450
1416	7739812	01	G	G	N	ODOT-REST AREA 4-34	705 OAKWOOD STREET	RAVENNA	OH	5.924	200
1418	7779712	01	G	G	P	GREEN INTERMEDIATE SCH.	PO BOX 218	GREEN	OH	6.476	631
1419	7779812	01	G	G	P	GREEN MIDDLE SCHOOL	PO BOX 218	GREEN	OH	6.476	980
1422	7793812	01	G	G	N	GREEN H.S. FOOTBALL	PO BOX 218	GREENSBURG	OH	6.476	62
1425	8552512	01	G	G	P	BARBERTON RESCUE MISSION	6694 TAYLOR RD, PO BOX 340	CLINTON	OH	13.914	45
1427	7749812	01	G	G	N	TEMPLE BAPTIST CHURCH	P.O. BOX 181	GREEN	OH	10.525	275
1429	7638512	01	G	G	P	MARLBORO MFG INC	11750 MARLBORO AVENUE NE	ALLIANCE	OH	12.267	53
1430	7789112	01	G	G	N	GREEN COMMUNITY CENTER	P.O. BOX 278	GREENSBURG	OH	6.430	60
1432	7734912	01	G	G	N	GREEN TOWNSHIP FIRE DEPT	4200 MASSILLON ROAD	GREENSBURG	OH	6.513	50
1434	7740712	01	G	G	N	QUEEN OF HEAVEN CHURCH	1800 STREESE RD., PO BOX 296	GREEN	OH	6.575	300
1437	7770112	01	G	G	N	MANCHESTER TRINITY CHAPE	5781 MANCHESTER ROAD	AKRON	OH	10.062	75
1439	7765212	01	G	G	N	PORTAGE LAKE EAGLES #273	5899 MANCHESTER ROAD	AKRON	OH	10.157	50
1440	7763812	01	G	G	N	ODNR-NIMISILA RES-BEACH2	C/O PORTAGE LK ST PK, MANCHEST	AKRON	OH	8.243	300

1443	7794112	01	G	G	N	PANCHO'S SW GRILL	4325 MASSILLON RD.	N. CANTON	OH	6.535	148
1445	7778112	01	G	G	P	NOLLEY ELEMENTARY SCHOOL	6285 RENNINGER ROAD	AKRON	OH	9.614	537
1446	7777712	01	G	G	N	DAIRY MART #5082	953 WEST NIMISILA ROAD	AKRON	OH	10.276	100
1449	7763912	01	G	G	N	ODNR-NIMISILA RES-CAMP-1	5031 MANCHESTER ROAD	AKRON	OH	8.568	300
1452	8534012	01	G	G	N	CHIPPEWA GOLF COURSE	12147 SHANK ROAD	DOYLESTOWN	OH	14.375	200
1455	7778012	01	G	G	P	MANCHESTER HIGH SCHOOL	437 WEST NIMISILA ROAD	AKRON	OH	9.625	567
1456	7739012	01	G	G	N	ODNR-PORTAGE LK ST PK-B	5031 MANCHESTER ROAD	AKRON	OH	13.932	600
1458	7780412	01	G	G	P	PORTAGE LAKES CAREER CTR	PO BOX 248, 4401 SHRIVER	GREEN	OH	6.919	600
1460	7644312	01	G	G	P	WASHINGTON ELEM. SCHOOL	10320 MOULIN AVENUE NE	ALLIANCE	OH	14.315	399
1463	7762512	01	G	G	P	MANCHESTER MIDDLE SCHOOL	760 WEST NIMISILA ROAD	AKRON	OH	9.568	490
1466	7777512	01	G	G	N	COPE'S PHARMACY	941 WEST NIMISILA ROAD	AKRON	OH	10.258	25
1469	7668712	01	G	G	N	TANNENHAUF GOLF CLUB 6G	11411 MCCALLUM RD	ALLIANCE	OH	13.193	100
1471	7797412	01	G	G	N	GRIFFITH'S PARK SWIM CLB	6571 CLEVELAND-MASSILLON ROA	CLINTON	OH	13.200	50
1474	7764012	01	G	G	N	ODNR-NIMISILA RES-CAMP-2	C/OPORTAGE LK ST PK, MANCHEST	AKRON	OH	8.697	300
1475	7667812	01	G	G	N	TANNENHAUF GOLF CLUB CLU	11411 MCCALLUM RD	ALLIANCE	OH	13.625	300
1477	7662912	01	G	G	N	APOSTOLIC GOSPEL CHURCH	10633 KENT AVENUE NE	HARTVILLE	OH	7.074	100
1480	7762612	01	G	G	N	MANCHESTER TAVERN	6174 MANCHESTER ROAD	AKRON	OH	10.393	100
1481	7668612	01	G	G	N	TANNENHAUF GOLF CLUB 16G	11411 MCCALLUM RD	ALLIANCE	OH	13.340	100
1483	7774312	01	G	G	N	GREENSBURG CHURCH OF GOD	P.O. BOX 576	GREEN	OH	7.025	175
1485	7747112	01	G	G	P	KLECKNER ELEMENTARY SCH	PO BOX 218	GREEN	OH	7.504	611
1488	7769212	01	G	G	N	DAIRY MART #5217	2205 GREENSBURG RD, P.O.BOX5	GREENSBURG	OH	7.264	50
1491	7744412	01	G	G	P	GREENSBURG UN.NET.CHURCH	P.O. BOX 155	GREEN	OH	7.284	65
1492	7776012	01	G	G	N	GREEN BRANCH LIBRARY	4759 MASSILLON ROAD	GREENSBURG	OH	7.159	100
1494	7670312	01	G	G	N	LAKE O' PINES	1481 LAKE O' PINES ST	HARTVILLE	OH	7.148	20
1497	7765112	01	G	G	N	COUNTRY CORNER	7724 SOUTH CLEVELAND-MASSILL	CLINTON	OH	13.595	30
1499	7783412	01	G	G	N	DAIRY-MART GREENSBURG	2205 GREENSBURG ROAD	GREENSBURG	OH	7.330	50
1501	7789212	01	G	G	P	GREEN LOCAL SCHOOLS- BUS	PO BOX 218	GREEN	OH	7.632	45
1502	7785112	01	G	G	P	GOODYEAR TIRE & RUBBER	PO BOX 185	GREEN	OH	7.170	200
1505	7776112	01	G	G	N	THE FALCON LOUNGE	246 CASTON ROAD	AKRON	OH	9.341	50
1508	7789012	01	G	G	P	NORTH CANTON TRANSFER	2515 GREENSBURG ROAD	NORTH CANTON	OH	7.070	50
1510	7657912	01	G	G	N	COACH HOUSE INN	9815 CLEVELAND	GREENTOWN	OH	6.752	100
1511	7781012	01	G	G	P	ARMY AVIATION SUPORT FAC	5989 AIRPORT DRIVE NW	NORTH CANTON	OH	7.141	85
1513	7758712	01	G	G	N	CHUB'S PUB	P.O. BOX 94	CLINTON	OH	13.557	25
1516	7645512	01	G	G	P	GREENTOWN ELEMENTARY SCL	3330 STATE STREET NW	NORTH CANTON	OH	6.870	475
1518	7660612	01	G	G	P	SHEPARD'S FOLD LATCH KEY	3088 STATE STREET N.W.	GREENTOWN	OH	6.886	36
1519	7660212	01	G	G	N	GREENTOWN CAFE	PO BOX 338	GREENTOWN	OH	7.039	25
1522	7759112	01	G	G	N	CLINTON CHURCH OF CHRIST	P.O. BOX 220	CLINTON	OH	12.790	300
1524	7780012	01	G	G	P	CLINTON ELEMENTARY SCH	7927 FULTON STREET	CLINTON	OH	13.412	377
1525	7790212	01	G	G	N	ORCHARD INN	4353 ARLINGTON ROAD	AKRON	OH	8.493	70

1528	7776612	01	G	G	N	HILLSIDE PARK 1	2534 COMET ROAD	CLINTON	OH	13.408	100
1529	7769912	01	G	G	N	TOP CAT LOUNGE	2972 N. DIVISION STREET	CLINTON	OH	14.347	50
1531	7776712	01	G	G	N	HILLSIDE PARK-2	2534 COMET ROAD	CLINTON	OH	13.430	100
1533	7638612	01	G	G	P	MARLINGTON HIGH SCHOOL	10320 MOULIN AVENUE NE	ALLIANCE	OH	14.270	852
1536	7799812	01	G	G	N	CAMP Y NOAH DAY C.-YMCA	815 MT. PLEASANT	CLINTON	OH	9.194	25
1538	7722712	01	G	G	N	WARWICK AUCTION	2967 N. DIVISION	CLINTON	OH	14.360	25
1542	7638712	01	G	G	P	MARLINGTON MIDDLE SCHOOL	10325 MOULIN AVENUE, N.E.	ALLIANCE	OH	14.154	637
1543	7653712	01	G	G	P	CHRISTIAN MINISTRY, INC.	1305 STATE ST NW PO BOX 8039	NORTH CANTON	OH	7.700	55
1544	7737612	01	G	G	N	OCCASIONS PARTY CENTRE	6800 MANCHESTER ROAD	CLINTON	OH	11.181	50
1547	7700112	01	G	G	P	AKRON-CANTON AIRPORT	5400 LAUBY RD. BOX 9	NORTH CANTON	OH	7.883	301
1548	7665212	01	G	G	N	GREENTOWN VFW 9904	8695 CLEVELAND AVE NW BOX 19	GREENTOWN	OH	7.864	50
1550	7732112	01	G	G	N	CAMP Y NOAH	815 MT PLEASANT ROAD	CLINTON	OH	9.850	275
1553	7664612	01	G	G	N	DISABLED AM VET #50	PO BOX 2483, 9540 MCCALLUM R	ALLIANCE	OH	14.608	120
1555	7670812	01	G	G	N	MARKS AIRPORT DRVNG RNGE	8571 WALES RD NW	NORTH CANTON	OH	8.909	25
1556	7649912	01	G	G	N	CAMP RODMAN-DRIVEWAY PUM	770 SCRANTON AVE	ALLIANCE	OH	14.562	25
1558	7651512	01	G	G	N	WILLOW DALE LAKE COUNTRY	610 WILLOWDALE LAKE-NW	NORTH CANTON	OH	9.580	50
1560	7649922	01	G	G	N	CAMP RODMAN-MAIN PUMP	770 SCRANTON AVE	ALLIANCE	OH	14.679	25
1563	7662412	01	G	G	N	GRACE BRETHERN CH-MIDDLE	2911 WILLIAM NE PO BOX 43	MIDDLEBRANCH	OH	9.850	125
1565	7652218	01	G	G	N	CARRIAGE HOUSE NIGHT CLB	9033 COLUMBUS RD NE	LOUISVILLE	OH	12.937	50
1567	7663012	01	G	G	N	DIAMOND SPORT CENTER	2782 DIAMOND ST NE	NORTH CANTON	OH	9.972	100
1569	7638912	01	G	G	P	MIDDLEBRANCH MIDDLE SCL.	424 NORTH JACKSON AVE	BREWSTER	OH	10.048	688
1570	7641812	01	G	G	N	ROLLING GREEN GOLF CRSE	7655 LUTZ NW	MASSILLON	OH	10.952	150
1572	7639612	01	G	G	N	CANAAN ACRES CHR CAMP	8020 NAZARENE AVE	LOUISVILLE	OH	12.516	270
1574	7650212	01	G	G	N	CONGRESS LAKE CLUBHOUSE	1 EAST DRIVE	HARTVILLE	OH	11.142	274
1575	7620112	01	G	G	N	CONGRESS LAKE CLUB-BOAT.	1 EAST DR	HARTVILLE	OH	11.142	50
1577	7620012	01	G	G	N	CONGRESS LAKE CLUB-MAINT	1 EAST DR	HARTVILLE	OH	11.142	35
1582	7620212	01	G	G	N	CONGRESS LAKE CLUB-HALFW	1 EAST DR	HARTVILLE	OH	11.142	100
1585	7664112	01	G	G	N	COUNTRY CONES	4219 MIDDLEBRANCH AVE NE	CANTON	OH	10.534	30
1587	7666212	01	G	G	N	OAKWOOD COUNTRY CLUB	6875 FIRESTONE PO BOX 2478	NORTH CANTON	OH	10.432	30
1590	7634012	01	G	G	N	EDGEWOOD GOLF INC.	6900 MARKET AVE NORTH	NORTH CANTON	OH	10.248	200
1592	7667112	01	G	G	N	SHELLY'S PLACE	6854 ERIE AVE	CANAL FULTON	OH	13.899	25
1594	7636212	01	G	G	P	JACKSON CHRISTIAN DAY CA	7373 PORTAGE STREET NW	MASSILLON	OH	10.879	220
1596	7649712	01	G	G	N	BRANHAVEN SWIM-TENNIS CL	5615 PORTAGE STREET-NW	NORTH CANTON	OH	11.807	200
1597	7665912	01	G	G	N	LESLIE'S TAVERN	7563 COLUMBUS RD NE	LOUISVILLE	OH	12.792	50
1599	7633612	01	G	G	N	DAVE'S FOOD & CATERING	6721 WISE AVE	NORTH CANTON	OH	10.164	700
1601	7666012	01	G	G	N	LOUIE'S PUB	7512 COLUMBUS RD NE	LOUISVILLE	OH	12.781	50
1603	7643412	01	G	G	N	THOMPSONS DAIRY LAND	7519 COLUMBUS ROAD	LOUISVILLE	OH	12.703	200
1606	7659512	01	G	G	P	NORTH WHIPPLE PLAZA	3224 NAVARRE ROAD SW	CANTON	OH	10.189	50
1608	7638012	01	G	G	P	LINDSAY CONCRETE PRODUCT	6845 ERIE NW	CANAL FULTON	OH	13.975	85

				VFW POST 7490	7459 COLUMBUS	LOUISVILLE	OH	12.792	45	
1610	7643912	01	G	G	N	DAIRY MART, INC. #5204	5000 PORTAGE ST	NORTH CANTON	OH 10.403	25
1612	7660712	01	G	G	N	DAIRY MART 5261	6725 WALES RD	MASSILLON	OH 11.006	600
1614	7656412	01	G	G	P	NORTHWEST HIGH SCHOOL	8590 ERIE AVENUE N.	CANAL FULTON	OH 14.502	1,600
1615	7640012	01	G	G	N	LAST RESORT LOUNGE	6450 WALES RD NW	NORTH CANTON	OH 11.078	65
1618	7665812	01	G	G	N	SPEE D FOODS-NORTH CANTO	6304 MARKET AVE N	NORTH CANTON	OH 10.946	25
1620	7667712	01	G	G	N	BP OIL SERVICE STA 5997	6363 N.MARKET STREET	NORTH CANTON	OH 10.515	200
1622	7642612	01	G	G	N	SPEE-D-THRU	6356 MARKET AVE N	NORTH CANTON	OH 10.987	400
1623	7667512	01	G	G	N	LYON'S DEN GOLF	6347 MANCHESTER AVE NW	CANAL FULTON	OH 14.879	200
1626	7666112	01	G	G	N	NORTH NIMISHILLEN ELEM	7337 EASTON STREET,NE	LOUISVILLE	OH 13.191	314
1628	7639412	01	G	G	P	CAPPY'S PUB	7035 COLUMBUS RD	LOUISVILLE	OH 12.864	150
1629	7663712	01	G	G	P	HOLY CROSS PRESCHOOL&CHI	7707 NORTH MARKET AVENUE	NORTH CANTON	OH 10.823	52
1632	7670112	01	G	G	P	BEECH MENNONITE CHURCH	10037 EASTON ST NE	LOUISVILLE	OH 14.401	200
1634	7661912	01	G	G	N	LAKE HIGH SCHOOL	12077 LISA AVENUE	HARTVILLE	OH 10.892	840
1635	7636812	01	G	G	P	CITE GRILLE	6041 WHIPPLE AVENUE	NORTH CANTON	OH 10.917	200
1638	7633912	01	G	G	N	SKYWAY LOUNGE	6509 COLUMBUS RD	LOUISVILLE	OH 12.991	70
1639	7667212	01	G	G	N	RANSOM H BARR ELEMENTARY	424 NORTH JACKSON AVE	BREWSTER	OH 11.592	438
1641	7647212	01	G	G	P	CLAY'S PARK CAMPING RSRT	13190 PATTERSON RD	NORTH LAWRENCE	OH 14.917	600
1646	7654812	01	G	G	N	CLAY'S RESORT PARK SYSTM	13190 PATTERSON RD	NORTH LAWRENCE	OH 14.917	300
1649	7661312	01	G	G	N	LANDING-LAKE WELL	5540 MANCHESTER AVE	NORTH LAWRENCE	OH 14.917	300
1651	7654822	01	G	G	N	CLAY'S PARK RESORTS BE#1	13190 PATTERSON RD	NORTH LAWRENCE	OH 14.917	150
1652	7661212	01	G	G	N	CLAY'S PARK RESORTS WPWL	13190 PATTERSON RD	NORTH LAWRENCE	OH 14.917	40
1653	7661412	01	G	G	N	CLAY'S PARK RESORTS FOX	13190 PATTERSON RD	NORTH LAWRENCE	OH 14.917	50
1655	7661512	01	G	G	N	BUD'S CORNER	5750 COLUMBUS ROAD	LOUISVILLE	OH 13.022	50
1657	7631912	01	G	G	N	NICKY'S DUBL TYME	5468 FULTON RD NW	CANTON	OH 12.188	150
1660	7662812	01	G	G	N	THE CHILDREN'S GARDEN	225 CHAPEL SQUARE CIR	LOUISVILLE	OH 14.293	60
1661	7653612	01	G	G	P	SHADY HOLLOW COUNTRY CLB	4865 WALES RD NW	MASSILLON	OH 12.880	100
1663	7647422	01	G	G	N	SKYLAND PINE GOLF CLUB	3550 COLUMBUS ROAD N.E.	CANTON	OH 13.080	75
1666	7642412	01	G	G	N	SKYLAND PINE SWIM & TENN	3550 COLUMBUS RD NE	CANTON	OH 13.258	100
1668	7642512	01	G	G	N	UNITED FELLOWSHIP CLUB	PO BOX 7	BARBERTON	OH 14.162	40
1669	7651412	01	G	G	N	HIGH MILL PARK	9135 FULTON RD	MASSILLON	OH 13.957	100
1672	7635512	01	G	G	N	BOCCA GRANDE	4490 ERIE AVE	CANAL FULTON	OH 14.227	150
1674	7663612	01	G	G	N	CRYSTAL TAVERN	4462 ERIE AVE NW	MASSILLON	OH 14.191	40
1676	7631812	01	G	G	N	DAIRY MART 5326	4235 MIDDLEBRANCH RD	CANTON	OH 13.030	600
1677	7645912	01	G	G	N	MEADOWLAKE GOLF & SWIM	1211 39TH ST NE	CANTON	OH 12.996	400
1680	7646512	01	G	G	N	CATHEDRAL OF LIFE	4111 38TH ST NW	CANTON	OH 12.830	525
1683	7662512	01	G	G	N	38TH ST.CHURCH OF CHRIST	3904 38TH ST. NW	CANTON	OH 12.854	400
1684	7658412	01	G	G	P	PLEASANT VIEW ELEM.SCH.	424 NORTH JACKSON AVE	BREWSTER	OH 13.667	404
1686	7647112	01	G	G	N	TAM O' SHANTER GOLF CRSE	5055 HILLS & DALES RD NW	CANTON	OH 13.449	300

05/11/00

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ENDANGERED SPECIES REPORT WITHIN RADIUS

ID #	FEDERAL CODE	STATE CODE	CLASS CODE	LOCATION CODE	DISTANCE (MILES)	SCIENTIFIC NAME	COMMON NAME
1	P	SP	C		14.687	015PLATANTHERA CLAVELLATA	GREEN WOODLAND ORCHID
2	P	SP	C		14.687	005SALIX CANDIDA	HOARY WILLOW
3	P	SP	C		14.687	007ERIOPHORUM VIRIDI-CARINATUM	GREEN COTTONGRASS
4	P	SP	C		14.687	001CAREX BEBBII	BEBB'S SEDGE
5	S	SA	C		14.687	017CLEMMYS GUTTATA	SPOTTED TURTLE
6	T	SP	C		14.687	001CYPRIPEDIUM REGINAE	SHOWY LADY'S-SLIPPER
7	T	SP	C		14.687	007CORNUS CANADENSIS	BUNCHBERRY
8	P	SP	C		14.687	005GEUM RIVALE	WATER AVENS
10	P	SP	C		14.687	002SALIX SERISSIMA	AUTUMN WILLOW
11	E	SP	C		14.687	001MYRICA PENNSYLVANICA	BAYBERRY
12	E	SP	C		14.687	002GALIUM LABRADORICUM	BOG BEDSTRAW
13	P	SP	C		14.687	015SALIX MYRICOIDES	BLUE-LEAVED WILLOW
14	P	SP	C		14.687	014LARIX LARICINA	TAMARACK
15	P	SP	C		14.687	005GLYCERIA GRANDIS	TALL MANNA-GRASS
16	P	SP	C		14.355	027DROsera ROTUNDIFOLIA	ROUND-LEAVED SUNDEW
17	P	SP	C		14.355	004TRIGLOchin PALUSTRE	MARSH ARROW-GRASS
18	P	SP	C		14.355	021NEMOPANTHUS MUCRONATUS	CATBERRY
19	P	SP	C		14.355	011SALIX SERISSIMA	AUTUMN WILLOW
20	P	SP	C		14.355	011SPHENOPHOLIS PENNSYLVANICA	SWAMP-OATS
21	T	SP	C		14.355	008ELYMUS TRACHYCAULUS	BEARDED WHEAT GRASS
22	E	SP	C		14.355	002CYPRIPEDIUM CALCEOLUS VAR. PARVIFLORU M	SMALL YELLOW LADY'S-SLIPPER
23	T	SP	C		14.355	008CYPRIPEDIUM REGINAE	SHOWY LADY'S-SLIPPER
24	T	SP	C		14.355	013VIBURNUM OPULUS VAR. AMERICANUM	Highbush-CRANBERRY
25	P	SP	C		14.355	023CAREX STERILIS	FEN SEDGE
26	P	SP	C		14.355	020PRENANTHES RACEMOSA	PRairie RATTLESNAKE-ROOT

27	E	SP	C	14.355 003MYRICA PENSYLVANICA	BAYBERRY
30	P	SP	C	14.355 012SALIX CANDIDA	HOARY WILLOW
31	P	SP	C	14.355 033LARIX LARICINA	TAMARACK
32	P	SP	C	14.355 011ZIGADENUS ELEGANS VAR. GLAUCUS	WAND-LILY
33	P	SP	C	14.355 013ERIOPHORUM VIRIDI-CARINATUM	GREEN COTTONGRASS
34	P	SP	C	14.355 013GEUM RIVALE	WATER AVENS
35	P	SP	C	14.274 047LARIX LARICINA	TAMARACK
36	S	SA	N	14.224 002GALLINAGO GALLINAGO	COMMON SNIPE
37	S	SA	N	14.224 050RALLUS LIMICOLA	VIRGINIA RAIL
38	P	SP	N	14.597 004SPIRANTHES LUCIDA	SHINING LADIES'-TRESSES
39	P	SP	C	14.110 016GEUM RIVALE	WATER AVENS
40	P	SP	C	14.082 038LARIX LARICINA	TAMARACK
41	T	SP	C	14.082 009CYPRIPEDIUM REGINAE	SHOWY LADY'S-SLIPPER
42	P	SP	C	14.082 017SALIX SERISSIMA	AUTUMN WILLOW
43	P	SP	C	14.082 003CAREX BEBBII	BEBB'S SEDGE
45	P	SP	C	14.057 042LARIX LARICINA	TAMARACK
47	T	SP	C	14.030 013CYPRIPEDIUM REGINAE	SHOWY LADY'S-SLIPPER
48	P	SP	C	14.964 018POA LANGUIDA	WEAK SPEAR-GRASS
49	P	SP	C	14.964 022SPHENOPHOLIS PENSYLVANICA	SWAMP-OATS
50	P	SP	C	14.912 015CAREX ARGYRANTHA	SILVERY SEDGE
51	P	SP	C	14.912 016CORYDALIS SEMPERVIRENS	ROCK-HARLEQUIN
52	E	SA	C	14.912 008WILSONIA CANADENSIS	CANADA WARBLER
53	P	SP	C	14.912 002PLATANTHERA ORBICULATA	LARGE ROUND-LEAVED ORCHID
54	E	SP	C	14.912 002CAREX ARCTATA	DROOPING WOOD SEDGE
55	E	SA	C	14.775 006CATHARUS GUTTATUS	HERMIT THRUSH
57	P	SP	C	14.746 001CAREX ARGYRANTHA	SILVERY SEDGE
58	P	SP	C	14.746 016PANICUM COLUMBIANUM	AMERICAN PANIC-GRASS
60	P	SP	G	14.463 008SPIRANTHES LUCIDA	SHINING LADIES'-TRESSES
62	P	SP	C	14.663 005GENTIANA CLAUSA	CLOSED GENTIAN
63	P	SP	C	12.929 008CAREX DIANDRA	LESSER PANICLED SEDGE
64	P	SP	C	12.924 018ELEOCHARIS INTERMEDIA	MATTED SPIKERUSH
65	P	SP	C	12.948 017DESCHAMPSIA FLEXUOSA	CRINKLED HAIRGRASS
66	P	SP	C	12.939 035GEUM RIVALE	WATER AVENS

67	P	SP	C	12.884 014ERIOPHORUM VIRIDI-CARINATUM	GREEN COTTONGRASS
68	P	SP	C	12.884 036DROSERA ROTUNDIFOLIA	ROUND-LEAVED SUNDEW
69	P	SP	C	12.880 006CAREX FLAVA	YELLOW SEDGE
70	P	SP	C	12.880 002SALIX CANDIDA	HOARY WILLOW
71	P	SP	C	12.880 002ZIGADENUS ELEGANS VAR. GLAUCUS	WAND-LILY
72	P	SP	C	12.880 002RHYNCHOSPORA ALBA	WHITE BEAK-RUSH
73	P	SP	C	12.880 013VACCINIUM MACROCARPON	LARGE CRANBERRY
74	T	SP	C	12.880 001TOFIELDIA GLUTINOSA	FALSE ASPHODEL
75	T	SP	C	12.880 003CYPRIPEDIUM REGINAE	SHOWY LADY'S-SLIPPER
76	P	SP	C	12.880 003DROSERA ROTUNDIFOLIA	ROUND-LEAVED SUNDEW
77	P	SP	C	12.880 001SCLERIA VERTICILLATA	LOW NUT-RUSH
78	P	SP	C	12.880 005POTENTILLA PALUSTRIS	MARSH FIVEFINGER
81	P	SP	C	12.880 020SOLIDAGO OHIOENSIS	OHIO GOLDENROD
83	P	SP	C	12.880 004SALIX SERISSIMA	AUTUMN WILLOW
84	P	SP	C	12.880 006LARIX LARICINA	TAMARACK
85	P	SP	C	12.880 018GENTIANOPSIS PROCERA	SMALL FRINGED GENTIAN
86	P	SP	C	12.880 005HYDROCOTYLE AMERICANA	AMERICAN WATER-PENNYWORT
87	E	SP	C	12.880 002MYRICA PENNSYLVANICA	BAYBERRY
88	P	SP	C	12.880 002GEUM RIVALE	WATER AVENS
89	P	SP	C	12.892 033GEUM RIVALE	WATER AVENS
90	P	SP	C	12.877 019CAREX SARTWELLII	SARTWELL'S SEDGE
91	P	SP	N	12.887 015CALLA PALUSTRIS	WILD CALLA
92	E	SP	N	12.783 005SISYRINCHIUM MUCRONATUM	NARROW-LEAVED BLUE-EYED-GR
93	P	SP	C	12.775 017CAREX FLAVA	YELLOW SEDGE
94	P	SP	C	12.775 013CAREX BEBBII	BEBB'S SEDGE
95	T	SP	C	12.775 001MELANTHIUM VIRGINICUM	BUNCHFLOWER
96	E	SP	C	12.775 005MYRICA PENNSYLVANICA	BAYBERRY
97	P	SP	C	12.775 025HYDROCOTYLE AMERICANA	AMERICAN WATER-PENNYWORT
98	P	SP	C	12.775 013CAREX UTRICULATA	BEAKED SEDGE
99	P	SP	C	12.775 012CAREX STERILIS	FEN SEDGE
100	P	SP	C	12.754 034GEUM RIVALE	WATER AVENS
101	T	SP	C	14.065 010CAREX OLIGOSPERMA	FEW-SEEDED SEDGE
102	P	SP	C	14.065 041WOODWARDIA VIRGINICA	VIRGINIA CHAIN-FERN

103	P	SP	C	14.045 055RHODODENDRON NUDIFLORUM VAR. ROSEUM	NORTHERN ROSE AZALEA
104	P	SP	C	14.045 026CAREX UTRICULATA	BEAKED SEDGE
105	P	SP	C	14.045 033NEMOPANTHUS MUCRONATUS	CATBERRY
106	P	SP	C	13.988 023WOODWARDIA VIRGINICA	VIRGINIA CHAIN-FERN
107	P	SP	C	13.988 032NEMOPANTHUS MUCRONATUS	CATBERRY
108	P	SP	C	13.988 010CAREX ATLANTICA VAR. CAPILLACEA	HOWE'S SEDGE
109	P	SP	C	13.988 024CHAMAEDAPHNE CALYCULATA	LEATHER-LEAF
110	P	SP	C	13.988 024RHODODENDRON NUDIFLORUM VAR. ROSEUM	NORTHERN ROSE AZALEA
112	P	SP	C	13.988 025CAREX UTRICULATA	BEAKED SEDGE
113	P	SP	C	14.758 055CYPRIPEDIUM CALCEOLUS VAR. PUBESCENS	LARGE YELLOW LADY'S-SLIPPER
114	P	SP	C	12.578 023GEUM RIVALE	WATER AVENS
115	P	SP	C	12.578 024HYDROCOTYLE AMERICANA	AMERICAN WATER-PENNYWORT
116	P	SP	C	12.578 021SALIX SERISSIMA	AUTUMN WILLOW
117	P	SP	N	12.759 008CAREX RADIIATA	RADIATE SEDGE
118	S	SA	C	12.189 017PORZANA CAROLINA	SORA
119	P	SP	C	12.500 006CAREX ALATA	BROAD-WINGED SEDGE
120	P	SP	C	12.500 024POTAMOGETON ZOSTERIFORMIS	FLAT-STEM PONDWEED
121	E	SP	C	12.500 001NAJAS GRACILLIMA	THREAD-LIKE NAIAD
122	P	SP	C	12.507 019DE SCHAMPSIA FLEXUOSA	CRINKLED HAIRGRASS
123	P	SP	C	12.438 015LARIX LARICINA	TAMARACK
124	S	SA	N	12.008 025RALLUS LIMICOLA	VIRGINIA RAIL
125	E	SP	C	12.407 005HYDROCOTYLE UMBELLATA	NAVELWORT
126	E	SP	C	12.407 002CAREX DISPERMA	TWO-SEEDED SEDGE
127	P	SP	C	12.407 010CAREX ALATA	BROAD-WINGED SEDGE
128	P	SP	C	12.407 010CAREX DIANDRA	LESSER PANICLED SEDGE
129	P	SP	C	13.198 013CAREX FLAVA	YELLOW SEDGE
130	P	SP	C	13.198 024GEUM RIVALE	WATER AVENS
131	P	SP	C	13.198 013CAREX STERILIS	FEN SEDGE
132	P	SP	C	12.245 015CYPERUS DIANDRUS	LOW UMBRELLA-SEDGE
133	P	SP	C	12.245 008POTAMOGETON ZOSTERIFORMIS	FLAT-STEM PONDWEED
134	E	SP	C	12.245 006HYDROCOTYLE UMBELLATA	NAVELWORT
135	P	SP	C	12.290 005CAREX ALATA	BROAD-WINGED SEDGE
136	P	SP	C	12.435 015DE SCHAMPSIA FLEXUOSA	CRINKLED HAIRGRASS

137	P	SP	C	12.435 020CALLA PALUSTRIS	WILD CALLA
138	T	SP	C	12.435 005CAREX OLIGOSPERMA	FEW-SEEDED SEDGE
139	T	SP	C	12.435 005MENYANTHES TRIFOLIATA	BUCKBEAN
140	E	SP	C	12.435 003CORALLORHIZA TRIFIDA	EARLY CORAL-ROOT
141	P	SP	C	12.435 022NEMOPANTHUS MUCRONATUS	CATBERRY
142	P	SP	C	12.435 015RHODODENDRON NUDIFLORUM VAR. ROSEUM	NORTHERN ROSE AZALEA
143	P	SP	C	12.435 019WOODWARDIA VIRGINICA	VIRGINIA CHAIN-FERN
144	E	SP	C	12.115 002HYDROCOTYLE UMBELLATA	NAVELWORT
145	S	SA	C	12.058 004ETHEOSTOMA EXILE	IOWA DARTER
146	P	SP	C	12.058 016CYPERUS DIANDRUS	LOW UMBRELLA-SEDGE
147	E	SP	C	12.058 007HYDROCOTYLE UMBELLATA	NAVELWORT
148	E	SA	G	12.362 002SEIURUS NOVEBORACENSIS	NORTHERN WATERTHRUSH
149	E	SP	C	12.074 001POTAMOGETON FRIESII	FRIES' PONDWEED
150	P	SP	C	12.074 023POTAMOGETON ZOSTERIFORMIS	FLAT-STEM PONDWEED
152	S	SA	C	11.947 021ETHEOSTOMA EXILE	IOWA DARTER
153	E	SP	C	11.947 004HYDROCOTYLE UMBELLATA	NAVELWORT
154	P	SP	C	11.909 004SPARGANIUM ANDROCLADUM	KEELED BUR-REED
155	P	SP	N	11.582 025POTAMOGETON ZOSTERIFORMIS	FLAT-STEM PONDWEED
156	E	SP	N	11.582 001POTAMOGETON ROBBINSII	ROBBINS' PONDWEED
157	P	SP	C	11.587 020CAREX ATLANTICA VAR. CAPILLACEA	HOWE'S SEDGE
158	P	SP	C	11.587 028CHAMAEDAPHNE CALYCULATA	LEATHER-LEAF
159	P	SP	C	11.587 001NEMOPANTHUS MUCRONATUS	CATBERRY
160	P	SP	C	11.587 011POTENTILLA PALUSTRIS	MARSH FIVEFINGER
161	E	SA	C	11.771 013BOTaurus LENTIGINOSUS	AMERICAN BITTERN
163	S	SA	N	11.488 026RALLUS LIMICOLA	VIRGINIA RAIL
164	S	SA	N	11.488 018PORZANA CAROLINA	SORA
165	P	SP	C	12.051 009DESCHAMPSIA FLEXUOSA	CRINKLED HAIRGRASS
166	LT	E	SA	11.756 017HALIAEETUS LEUCOCEPHALUS	BALD EAGLE
167	P	SP	N	11.999 018DESCHAMPSIA FLEXUOSA	CRINKLED HAIRGRASS
168	S	SA	C	14.301 019PORZANA CAROLINA	SORA
169	E	SA	C	14.301 015IXOBRYCHUS EXILIS	LEAST BITTERN
170	E	SA	C	14.301 015BOTaurus LENTIGINOSUS	AMERICAN BITTERN
171	S	SA	G	10.978 003GALLINAGO GALLINAGO	COMMON SNIPE

172	P	SP	N	14.666 012HYDROCOTYLE AMERICANA	AMERICAN WATER-PENNYWORT
173	T	SP	N	10.699 006ELYMUS TRACHYCAULUS	BEARDED WHEAT GRASS
174	P	SP	C	11.066 022CHAMAEDAPHNE CALYCULATA	LEATHER-LEAF
175	P	SP	C	11.066 012RHYNCHOSPORA ALBA	WHITE BEAK-RUSH
176	E	SP	C	11.066 003XYRIS DIFFORMIS	CAROLINA YELLOW-EYED-GRASS
177	P	SP	C	11.066 018WOODWARDIA VIRGINICA	VIRGINIA CHAIN-FERN
178	P	SP	C	11.723 057RHODODENDRON NUDIFLORUM VAR. ROSEUM	NORTHERN ROSE AZALEA
179	P	SP	C	11.723 012PLATANTHERA ORBICULATA	LARGE ROUND-LEAVED ORCHID
180	P	SP	C	11.723 012CALLA PALUSTRIS	WILD CALLA
181	P	SP	C	11.723 034NEMOPANTHUS MUCRONATUS	CATBERRY
184	E	SA	N	14.701 001ICHTHYOMYZON GREELEYI	MOUNTAIN BROOK LAMPREY
185	S	SA	C	11.287 020ETHEOSTOMA EXILE	IOWA DARTER
186	P	SP	C	11.287 017POTAMOGETON ZOSTERIFORMIS	FLAT-STEM PONDWEED
187	E	SP	C	11.287 003POTAMOGETON ROBBINSII	ROBBINS' PONDWEED
188	E	SP	C	11.319 004POTAMOGETON ROBBINSII	ROBBINS' PONDWEED
189	T	SP	N	10.727 001PANICUM BOREALE	NORTHERN PANIC-GRASS
190	T	SP	N	10.727 005LUZULA BULBOSA	SOUTHERN WOODRUSH
191	T	SP	N	10.727 013LILIMUM PHILADELPHICUM	WOOD-LILY
192	P	SP	N	10.727 004HYDROCOTYLE AMERICANA	AMERICAN WATER-PENNYWORT
193	P	SP	N	10.727 003DANTHONIA COMPRESSA	FLATTENED WILD OAT GRASS
194	P	SP	N	10.727 001PLATANTHERA FLAVA	TUBERCLED REIN-ORC HID
195	P	SP	C	11.530 005CAREX ATLANTICA VAR. CAPILLACEA	HOWE'S SEDGE
196	P	SP	C	11.530 021CHAMAEDAPHNE CALYCULATA	LEATHER-LEAF
197	T	SP	C	11.530 004CAREX OLIGOSPERMA	FEW-SEEDED SEDGE
199	P	SP	C	11.530 017WOODWARDIA VIRGINICA	VIRGINIA CHAIN-FERN
200	P	SP	C	11.530 017CALLA PALUSTRIS	WILD CALLA
201	P	SP	C	11.434 020CHAMAEDAPHNE CALYCULATA	LEATHER-LEAF
202	P	SP	C	11.434 018CALLA PALUSTRIS	WILD CALLA
204	P	SP	N	11.218 012CHAMAEDAPHNE CALYCULATA	LEATHER-LEAF
205	P	SP	N	11.218 005DECHAMPSIA FLEXUOSA	CRINKLED HAIRGRASS
207	P	SP	C	11.482 015SPARGANIUM ANDROCLADUM	KEELED BUR-REED
208	P	SP	N	10.383 002CAREX RADIATA	RADIATE SEDGE
209	P	SP	C	10.279 002DECHAMPSIA FLEXUOSA	CRINKLED HAIRGRASS

210	T	SP	N	10.853 007LECHEA INTERMEDIA	ROUND-FRUITED PINWEED
211	E	SA	N	13.807 006CISTOTHORUS PLATENSIS	SEDGE WREN
212	S	SA	C	9.954 017ETHEOSTOMA EXILE	IOWA DARTER
213	E	SA	C	9.954 005FUNDULUS DIAPHANUS MENONA	WESTERN BANDED KILLIFISH
214	P	SP	N	14.170 011HYDROCOTYLE AMERICANA	AMERICAN WATER-PENNYWORT
215	P	SP	C	9.867 028POTAMOGETON ZOSTERIFORMIS	FLAT-STEM PONDWEED
218	T	SP	N	10.119 005LECHEA INTERMEDIA	ROUND-FRUITED PINWEED
219	P	SP	C	9.118 021PHEGOPTERIS CONNECTILIS	LONG BEECH-FERN
221	T	SP	N	8.476 002BOTRYCHIUM MULTIFIDUM	LEATHERY GRAPE-FERN
222	T	SP	N	9.854 004WOLFFIELLA FLORIDANA	WOLFFIELLA
223	T	SP	N	9.972 009BOTRYCHIUM MULTIFIDUM	LEATHERY GRAPE-FERN
224	P	SP	N	8.825 013EQUISETUM VARIEGATUM	VARIEGATED SCOURING-RUSH
225	P	SP	N	8.017 001PANICUM COLUMBIANUM	AMERICAN PANIC-GRASS
226	T	SP	C	9.793 026MYRIOPHYLLUM SIBRICUM	AMERICAN WATER-MILFOIL
227	P	SP	C	9.793 016DESCHAMPSIA FLEXUOSA	CRINKLED HAIRGRASS
230	P	SP	N	8.007 014CALLA PALUSTRIS	WILD CALLA
231	P	SP	N	7.959 011RHODODENDRON NUDIFLORUM VAR. ROSEUM	NORTHERN ROSE AZALEA
232	E	SP	C	11.449 001POTAMOGETON PRAELONGUS	WHITE-STEM PONDWEED
233	P	SP	C	11.449 001ELEOCHARIS OLIVACEA	OLIVACEOUS SPIKERUSH
234	P	SP	C	11.449 013POTAMOGETON ZOSTERIFORMIS	FLAT-STEM PONDWEED
235	P	SP	C	11.449 017POTAMOGETON RICHARDSONII	RICHARDSON'S PONDWEED
237	E	SP	C	11.539 005POTAMOGETON PRAELONGUS	WHITE-STEM PONDWEED
238	S	SA	C	11.324 023ETHEOSTOMA EXILE	IOWA DARTER
239	P	SP	C	10.230 066JUGLANS CINEREA	BUTTERNUT
240	P	SP	C	9.318 016POTAMOGETON ZOSTERIFORMIS	FLAT-STEM PONDWEED
241	P	SP	C	7.481 017NEMOPANTHUS MUCRONATUS	CATBERRY
242	P	SP	C	7.481 031BETULA POPULIFOLIA	GRAY BIRCH
243	T	SP	C	7.481 009CAREX OLIGOSPERMA	FEW-SEEDED SEDGE
244	T	SP	C	7.481 003VACCINIUM OXYCOCOS	SMALL CRANBERRY
245	S	SA	C	7.481 003CLEMMYS GUTTATA	SPOTTED TURTLE
246	E	SA	C	7.481 002PIGLAEA APIATA	POINTED SALLOW
247	P	SP	C	7.481 010CAREX STRAMINEA	STRAW SEDGE
248	P	SP	C	7.481 004ERIOPHORUM VIRGINICUM	TAWNY COTTONGRASS

249	P	SP	C	7.481 022WOODWARDIA VIRGINICA	VIRGINIA CHAIN-FERN
250	E	SA	C	7.481 003CATOCALA GRACILIS	GRACEFUL UNDERWING
251	P	SP	N	7.597 016HYDROCOTYLE AMERICANA	AMERICAN WATER-PENNYWORT
252	T	SP	C	7.467 001CAREX OLIGOSPERMA	FEW-SEEDED SEDGE
253	P	SP	C	7.467 009CAREX STRAMINEA	STRAW SEDGE
254	P	SP	C	8.130 028BETULA POPULIFOLIA	GRAY BIRCH
255	E	SP	C	8.130 002CINNA LATIFOLIA	NORTHERN WOOD-REED
256	P	SP	N	13.325 047PLATANTHERA ORBICULATA	LARGE ROUND-LEAVED ORCHID
258	P	SP	C	7.356 009CHAMAEDAPHNE CALYCULATA	LEATHER-LEAF
260	P	SP	C	7.356 007LARIX LARICINA	TAMARACK
261	T	SP	C	6.993 007CLINTONIA UMBELLULATA	SPECKLED WOOD-LILY
262	P	SP	C	6.993 009PLATANTHERA ORBICULATA	LARGE ROUND-LEAVED ORCHID
263	P	SP	C	8.059 013PANICUM COLUMBIANUM	AMERICAN PANIC-GRASS
264	P	SP	C	8.059 014DESCHAMPSIA FLEXUOSA	CRINKLED HAIRGRASS
265	T	SP	C	7.999 011LECHEA INTERMEDIA	ROUND-FRUITED PINWEED
266	P	SP	N	8.991 008DESCHAMPSIA FLEXUOSA	CRINKLED HAIRGRASS
267	LT	E	SP	7.966 001ACONITUM NOVEBORACENSE	NORTHERN MONKSHOOD
268	E	SP	C	7.966 001CINNA LATIFOLIA	NORTHERN WOOD-REED
269	P	SP	C	6.756 013DESCHAMPSIA FLEXUOSA	CRINKLED HAIRGRASS
270	P	SP	C	7.910 011DANTHONIA COMPRESSA	FLATTENED WILD OAT GRASS
271	P	SP	C	7.910 010DESCHAMPSIA FLEXUOSA	CRINKLED HAIRGRASS
272	P	SP	C	7.910 023PHEGOPTERIS CONNECTILIS	LONG BEECH-FERN
273	T	SP	N	8.140 004SILENE CAROLINIANA VAR. PENNSYLVANICA	CAROLINA CATCHFLY
274	P	SP	N	8.809 029JUGLANS CINEREA	BUTTERNUT
275	P	SP	C	7.878 020DESCHAMPSIA FLEXUOSA	CRINKLED HAIRGRASS
277	E	SP	C	9.849 002UTRICULARIA GEMINISCAPA	TWO-SCAPED BLADDERWORT
278	E	SA	C	9.849 002CATOCALA GRACILIS	GRACEFUL UNDERWING
279	P	SP	C	9.849 010LARIX LARICINA	TAMARACK
280	P	SP	C	9.849 002CHAMAEDAPHNE CALYCULATA	LEATHER-LEAF
281	P	SP	C	9.849 006VACCINIUM MACROCARPON	LARGE CRANBERRY
282	P	SP	C	9.849 002WOODWARDIA VIRGINICA	VIRGINIA CHAIN-FERN
283	P	SP	C	9.849 008NEMOPANTHUS MUCRONATUS	CATBERRY
284	E	SP	C	9.849 002CAREX ECHINATA	LITTLE PRICKLY SEDGE

286	P	SP	C	9.849 007DROSERA ROTUNDIFOLIA	ROUND-LEAVED SUNDEW
287	P	SP	C	9.849 003SARRACENIA PURPUREA	PITCHER-PLANT
289	P	SP	C	9.849 013CAREX STRAMINEA	STRAW SEDGE
290	E	SA	C	9.849 001EPIGLAEA APIATA	POINTED SALLOW
292	P	SP	C	9.849 010SPARGANIUM ANDROCLADUM	KEELED BUR-REED
293	T	SA	C	10.061 021ERIMYZON SUCETTA	LAKE CHUBSUCKER
294	E	SA	N	7.865 003LUTRA CANADENSIS	RIVER OTTER
295	P	SP	C	10.355 028NEMOPANTHUS MUCRONATUS	CATBERRY
296	T	SP	C	7.792 002LECHEA INTERMEDIA	ROUND-FRUITED PINWEED
297	P	SP	N	7.842 002LUPINUS PERENNIS	WILD LUPINE
298	P	SP	C	7.012 007DESCHAMPSIA FLEXUOSA	CRINKLED HAIRGRASS
300	S	SA	C	6.895 054RALLUS Limicola	VIRGINIA RAIL
301	P	SP	C	8.311 014POTAMOGETON ZOSTERIFORMIS	FLAT-STEM PONDWEED
302	P	SP	C	10.113 015POTAMOGETON ZOSTERIFORMIS	FLAT-STEM PONDWEED
303	S	SA	N	10.361 026CLEMMYS GUTTATA	SPOTTED TURTLE
304	P	SP	C	8.560 013HELIANTHEMUM CANADENSE	CANADA FROSTWEED
305	P	SP	C	8.560 022LUPINUS PERENNIS	WILD LUPINE
306	T	SP	C	8.560 006ILENE CAROLINIANA VAR. PENNSYLVANICA	CAROLINA CATCHFLY
307	E	SP	C	8.560 004CAREX CEPHALOIDEA	THIN-LEAF SEDGE
309	P	SP	C	8.560 012CORNUS RUGOSA	ROUND-LEAVED DOGWOOD
310	P	SP	C	8.560 015LIATRIS QUARROSA	SCALY BLAZING-STAR
311	S	SA	G	6.214 038RALLUS Limicola	VIRGINIA RAIL
312	S	SA	N	6.057 016PORZANA CAROLINA	SORA
313	P	SP	C	5.975 003WOODWARDIA VIRGINICA	VIRGINIA CHAIN-FERN
314	P	SP	C	5.975 009LARIX LARICINA	TAMARACK
315	P	SP	C	11.882 021CYPERUS DIANDRUS	LOW UMBRELLA-SEDGE
317	P	SP	C	6.936 011LARIX LARICINA	TAMARACK
318	P	SP	C	6.936 004CAREX UTRICULATA	BEAKED SEDGE
319	P	SP	C	6.936 003CHAMAEDAPHNE CALYculata	LEATHER-LEAF
320	T	SP	C	6.936 002CAREX OLIGOSPERMA	FEW-SEEDED SEDGE
321	P	SP	C	6.936 008WOODWARDIA VIRGINICA	VIRGINIA CHAIN-FERN
322	P	SP	C	6.936 002ERIOPHORUM VIRGINICUM	TAWNY COTTONGRASS
323	P	SP	C	6.936 005NEMOPANTHUS MUCRONATUS	CATBERRY

325	E	SP	C	6.936 001LEDUM GROENLANDICUM	LABRADOR-TEA
326	P	SP	C	6.936 002CALLA PALUSTRIS	WILD CALLA
327	P	SP	C	6.936 011CASTANEA DENTATA	AMERICAN CHESTNUT
328	T	SP	C	10.713 013MYRIOPHYLLUM SIBIRICUM	AMERICAN WATER-MILFOIL
329	P	SP	N	12.665 018BETULA POPULIFOLIA	GRAY BIRCH
330	T	SA	C	10.317 001POLYODON SPATHULA	PADDLEFISH
331	E	SA	N	5.507 017BOTaurus LENTIGINOSUS	AMERICAN BITTERN
332	S	SA	C	2.122 025ETHEOSTOMA EXILE	IOWA DARTER
333	P	SP	C	1.964 034LARIX LARICINA	TAMARACK
334	P	SP	C	2.675 011CALLA PALUSTRIS	WILD CALLA
335	P	SP	N	2.866 009CASTANEA DENTATA	AMERICAN CHESTNUT
336	P	SP	C	2.891 035LARIX LARICINA	TAMARACK
337	P	SP	C	2.234 013CAREX ATLANTICA VAR. CAPILLACEA	HOWE'S SEDGE
338	P	SP	C	2.060 027CALLA PALUSTRIS	WILD CALLA
339	P	SP	C	2.060 030WOODWARDIA VIRGINICA	VIRGINIA CHAIN-FERN
340	P	SP	C	2.060 012CAREX UTRICULATA	BEAKED SEDGE
341	P	SP	C	2.311 019NEMOPANTHUS MUCRONATUS	CATBERRY
342	P	SP	C	2.311 006CAREX ATLANTICA VAR. CAPILLACEA	HOWE'S SEDGE
343	P	SP	C	2.311 011RHYNCHOSPORA ALBA	WHITE BEAK-RUSH
345	P	SP	C	2.311 041LARIX LARICINA	TAMARACK
346	P	SP	C	2.311 030DROSERA ROTUNDIFOLIA	ROUND-LEAVED SUNDEW
347	P	SP	C	2.311 016WOODWARDIA VIRGINICA	VIRGINIA CHAIN-FERN
348	P	SP	C	2.311 019CHAMAEDAPHNE CALYCULATA	LEATHER-LEAF
349	P	SP	C	2.311 018VACCINIUM MACROCARPON	LARGE CRANBERRY
350	P	SP	C	2.311 013SARRACENIA PURPUREA	PITCHER-PLANT
352	P	SP	C	2.311 016CALLA PALUSTRIS	WILD CALLA
353	E	SP	C	2.311 001UTRICULARIA GEMINISCAPA	TWO-SCAPED BLADDERWORT
354	E	SP	C	2.311 002XYRIS DIFFORMIS	CAROLINA YELLOW-EYED-GRASS
356	E	SP	C	2.311 001PLATANTHERA BLEPHARIGLOTTIS	WHITE FRINGED ORCHID
357	P	SP	C	11.087 008POTENTILLA PALUSTRIS	MARSH FIVEFINGER
358	S	SA	C	11.087 012CLEMMYS GUTTATA	SPOTTED TURTLE
359	P	SP	C	11.087 004CAREX ATLANTICA VAR. CAPILLACEA	HOWE'S SEDGE
360	P	SP	C	11.087 011NEMOPANTHUS MUCRONATUS	CATBERRY

361	T	SP	C	11.087 002MENYANTHES TRIFOLIATA	BUCKBEAN
362	T	SP	C	11.087 004BETULA PUMILA	SWAMP BIRCH
363	T	SP	C	11.087 004CAREX ALBOLUTESCENS	PALE STRAW SEDGE
364	P	SP	C	11.087 003ERIOPHORUM VIRGINICUM	TAWNY COTONGRASS
365	P	SP	C	11.087 013LARIX LARICINA	TAMARACK
366	P	SP	C	11.087 011SARRACENIA PURPUREA	PITCHER-PLANT
367	P	SP	C	11.087 014CHAMAEDAPHNE CALYCULATA	LEATHER-LEAF
368	P	SP	C	11.087 021DROSERA ROTUNDIFOLIA	ROUND-LEAVED SUNDEW
369	P	SP	C	11.087 010VACCINIUM MACROCARPON	LARGE CRANBERRY
370	E	SP	C	11.087 003SALIX PEDICELLARIS	BOG WILLOW
372	P	SP	C	1.767 028LARIX LARICINA	TAMARACK
373	P	SP	C	6.579 021WOODWARDIA VIRGINICA	VIRGINIA CHAIN-FERN
374	P	SP	C	6.579 025BETULA POPULIFOLIA	GRAY BIRCH
375	T	SP	C	1.706 007BETULA PUMILA	SWAMP BIRCH
376	P	SP	C	1.706 043LARIX LARICINA	TAMARACK
377	T	SA	N	3.483 005BARTRAMIA LONGICAUDA	UPLAND SANDPIPER
378	S	SA	C	10.950 061RALLUS LIMICOLA	VIRGINIA RAIL
379	T	SP	C	11.023 006BETULA PUMILA	SWAMP BIRCH
380	P	SP	N	2.224 029LARIX LARICINA	TAMARACK
381	S	SA	C	2.093 019ETHEOSTOMA EXILE	IOWA DARTER
382	S	SA	C	2.293 027ETHEOSTOMA EXILE	IOWA DARTER
383	P	SP	C	1.585 011LECHEA PULCHELLA	LEGGETT'S PINWEED
385	P	SP	C	7.961 021LARIX LARICINA	TAMARACK
386	P	SP	C	1.638 027POTAMOGETON ZOSTERIFORMIS	FLAT-STEM PONDWEED
387	P	SP	C	1.638 017CYPERUS DIANDRUS	LOW UMBRELLA-SEDGE
388	P	SP	C	1.963 018CYPERUS DIANDRUS	LOW UMBRELLA-SEDGE
390	P	SP	C	6.019 040LARIX LARICINA	TAMARACK
391	P	SP	C	6.503 007CHAMAEDAPHNE CALYCULATA	LEATHER-LEAF
392	P	SP	C	6.503 014VACCINIUM MACROCARPON	LARGE CRANBERRY
393	P	SP	C	7.328 011CAREX ALATA	BROAD-WINGED SEDGE
394	P	SP	C	7.328 011CAREX DIANDRA	LESSER PANICLED SEDGE
395	P	SP	C	7.328 009CAREX BEBBII	BEBB'S SEDGE
397	E	SP	C	7.229 003NUPHAR VARIEGATA	BULLHEAD LILY

398	S	SA	C	7.349 013ETHEOSTOMA EXILE	IOWA DARTER
399	P	SP	C	6.942 012CAREX ALATA	BROAD-WINGED SEDGE
400	P	SP	C	6.942 045LARIX LARICINA	TAMARACK
401	P	SP	N	4.672 005EQUISETUM VARIEGATUM	VARIEGATED SCOURING-RUSH
403	T	SP	N	2.322 004UTRICULARIA INTERMEDIA	FLAT-LEAVED BLADDERWORT
404	T	SA	C	7.332 010ERIMYZON SUCETTA	LAKE CHUBSUCKER
405	S	SA	N	7.614 005ETHEOSTOMA EXILE	IOWA DARTER
406	T	SP	C	10.685 001ZIZANIA AQUATICA	WILD RICE
407	P	SP	C	10.685 011POTAMOGETON ZOSTERIFORMIS	FLAT-STEM PONDWEED
408	P	SP	N	7.076 026LARIX LARICINA	TAMARACK
409	P	SP	N	13.552 020CAREX SARTWELLII	SARTWELL'S SEDGE
410	T	SP	C	7.127 005BETULA PUMILA	SWAMP BIRCH
412	P	SP	C	7.127 036LARIX LARICINA	TAMARACK
414	P	SP	N	4.170 014GENTIANOPSIS PROCERA	SMALL FRINGED GENTIAN
416	E	SP	N	5.581 002POTAMOGETON SPIRILLUS	SPIRAL PONDWEED
417	P	SP	N	4.337 019GENTIANOPSIS PROCERA	SMALL FRINGED GENTIAN
418	P	SP	N	4.337 007BETULA POPULIFOLIA	GRAY BIRCH
419	S	SA	N	10.128 008GALLINAGO GALLINAGO	COMMON SNIPE
420	P	SP	C	4.123 043WOODWARDIA VIRGINICA	VIRGINIA CHAIN-FERN
421	P	SP	C	4.123 030NEMOPANTHUS MUCRONATUS	CATBERRY
424	T	SP	C	4.729 011VIBURNUM OPULUS VAR. AMERICANUM	Highbush-Cranberry
425	P	SP	C	4.729 031HYDROCOTYLE AMERICANA	American Water-Pennywort
426	P	SP	C	4.729 014POTENTILLA PALUSTRIS	MARSH FIVEFINGER
427	P	SP	C	5.785 017HYDROCOTYLE AMERICANA	American Water-Pennywort
428	S	SA	N	10.661 018RALLUS LIMICOLA	Virginia Rail
429	P	SP	N	3.042 006CALLA PALUSTRIS	Wild Calla
430	S	SA	N	10.687 036PORZANA CAROLINA	Sora
431	P	SP	N	4.945 002POTENTILLA PALUSTRIS	MARSH FIVEFINGER
433	P	SP	C	6.223 027GLYCERIA GRANDIS	Tall Manna-Grass
434	T	SP	N	4.957 004EPILOBIUM STRICTUM	Simple Willow-Herb
435	T	SP	N	4.957 004VIBURNUM OPULUS VAR. AMERICANUM	Highbush-Cranberry
436	P	SP	N	4.957 006HYDROCOTYLE AMERICANA	American Water-Pennywort
438	T	SP	N	5.421 006MYRIOPHYLLUM SIBIRICUM	American Water-Milfoil

439	P	SP	C	4.767 005CHAMAEDAPHNE CALYCULATA	LEATHER-LEAF
440	P	SP	C	4.767 002NEMOPANTHUS MUCRONATUS	CATBERRY
441	T	SP	C	4.767 011CAREX OLIGOSPERMA	FEW-SEEDED SEDGE
442	T	SP	C	4.767 005UTRICULARIA INTERMEDIA	FLAT-LEAVED BLADDERWORT
443	T	SP	C	4.767 001PANICUM PHILADELPHICUM	PHILADELPHIA PANIC-GRASS
444	P	SP	C	4.767 010WOODWARDIA VIRGINICA	VIRGINIA CHAIN-FERN
446	P	SP	C	4.767 005CALLA PALUSTRIS	WILD CALLA
447	P	SP	C	4.767 003LARIX LARICINA	TAMARACK
448	P	SP	C	4.767 006ERIOPHORUM VIRGINICUM	TAWNY COTTONGRASS
449	P	SP	C	5.258 011CORALLORHIZA MACULATA	SPOTTED CORAL-ROOT
450	P	SP	C	8.206 014ERIOPHORUM VIRGINICUM	TAWNY COTTONGRASS
451	P	SP	C	8.206 023CAREX UTRICULATA	BEAKED SEDGE
452	P	SP	C	8.206 030CHAMAEDAPHNE CALYCULATA	LEATHER-LEAF
453	P	SP	C	8.206 005LARIX LARICINA	TAMARACK
454	P	SP	C	8.206 031NEMOPANTHUS MUCRONATUS	CATBERRY
455	P	SP	C	8.206 039PLATANTHERA CLAVELLATA	GREEN WOODLAND ORCHID
456	T	SP	C	8.580 010HYPERICUM CANADENSE	CANADIAN ST. JOHN'S-WORT
457	P	SP	C	3.948 032LARIX LARICINA	TAMARACK
458	E	SA	N	14.622 017TYTO ALBA	COMMON BARN-OWL
459	P	SP	C	4.077 004RHYNCHOSPORA ALBA	WHITE BEAK-RUSH
460	P	SP	C	4.077 005DROSERA ROTUNDIFOLIA	ROUND-LEAVED SUNDEW
461	P	SP	C	4.077 006SARRACENIA PURPUREA	PITCHER-PLANT
462	P	SP	C	4.077 001CAREX STERILIS	FEN SEDGE
463	T	SP	C	4.077 003TOFIELDIA GLUTINOSA	FALSE ASPHODEL
464	T	SP	C	4.077 001TRIGLOCHIN MARITIMUM	SEASIDE ARROW-GRASS
465	P	SP	C	4.077 002GENTIANOPSIS PROCERA	SMALL FRINGED GENTIAN
466	T	SP	C	4.077 007ELYMUS TRACHYCAULUS	BEARDED WHEAT GRASS
467	P	SP	C	4.077 008SALIX SERISSIMA	AUTUMN WILLOW
468	P	SP	C	4.077 002CAREX VIRIDULA	LITTLE GREEN SEDGE
469	P	SP	C	4.077 020CAREX FLAVA	YELLOW SEDGE
470	P	SP	C	4.077 003TRIGLOCHIN PALUSTRE	MARSH ARROW-GRASS
472	P	SP	C	4.077 004SOLIDAGO OHIOENSIS	OHIO GOLDENROD
473	P	SP	C	4.077 003ERIOPHORUM VIRIDI-CARINATUM	GREEN COTTONGRASS

474	P	SP	C	4.077 003CAREX CRAWEI	CRAWE'S SEDGE
475	P	SP	C	4.077 001SALIX MYRICOIDES	BLUE-LEAVED WILLOW
476	P	SP	C	8.388 024POTAMOGETON RICHARDSONII	RICHARDSON'S PONDWEED
477	S	SA	C	8.388 012ETHEOSTOMA EXILE	IOWA DARTER
478	P	SP	C	8.307 012HELIANTHEMUM CANADENSE	CANADA FROSTWEED
479	T	SP	C	8.307 008LECHEA INTERMEDIA	ROUND-FRUITED PINWEED
480	P	SP	C	8.307 004DESCHAMPSIA FLEXUOSA	CRINKLED HAIRGRASS
481	P	SP	C	8.307 002PANICUM LAXIFLORUM	PALE GREEN PANIC-GRASS
482	P	SP	C	8.307 022DANTHONIA COMPRESSA	FLATTENED WILD OAT GRASS
483	P	SP	C	8.278 031POTAMOGETON ZOSTERIFORMIS	FLAT-STEM PONDWEED
484	E	SP	C	8.278 002POTAMOGETON FRIESII	FRIES' PONDWEED
485	P	SP	C	8.278 025POTAMOGETON RICHARDSONII	RICHARDSON'S PONDWEED
486	P	SP	C	4.181 031CALLA PALUSTRIS	WILD CALLA
488	P	SP	C	5.419 022CAREX UTRICULATA	BEAKED SEDGE
489	P	SP	C	6.437 042WOODWARDIA VIRGINICA	VIRGINIA CHAIN-FERN
490	P	SP	C	8.062 010NEMOPANTHUS MUCRONATUS	CATBERRY
491	P	SP	C	8.062 008CHAMAEDAPHNE CALYculata	LEATHER-LEAF
492	P	SP	C	8.062 020LARIX LARICINA	TAMARACK
493	P	SP	C	5.352 004CALLA PALUSTRIS	WILD CALLA
494	P	SP	C	5.352 018CHAMAEDAPHNE CALYculata	LEATHER-LEAF
495	P	SP	N	8.164 006CHAMAEDAPHNE CALYculata	LEATHER-LEAF
496	P	SP	C	8.070 002CALOPOGON TUBerosus	GRASS-PINK
497	P	SP	C	8.070 019CAREX STERILIS	FEN SEDGE
498	P	SP	C	8.070 019SCLERIA VERTICILLATA	LOW NUT-RUSH
499	S	SA	C	8.070 010CLEMMYS GUTTATA	SPOTTED TURTLE
500	T	SP	C	8.070 002LILIUM PHILADELPHICUM	WOOD-LILY
501	T	SP	C	8.070 008PANICUM BOREALE	NORTHERN PANIC-GRASS
502	T	SP	C	8.070 001POGONIA OPHIOGLOSSOIDES	ROSE POGONIA
503	T	SP	C	8.070 002TOFIELDIA GLUTINOSA	FALSE ASPHodel
504	P	SP	C	8.070 005RHYNCHOSPORA ALBA	WHITE BEAK-RUSH
505	P	SP	C	8.070 004DROSERA ROTUNDIFOLIA	ROUND-LEAVED SUNDEW
506	P	SP	C	8.070 027ELEOCHARIS INTERMEDIA	MATTED SPIKERUSH
507	P	SP	C	8.070 005SOLIDAGO OHIOENSIS	OHIO GOLDENROD

508	P	SP	C	8.070 010SALIX CANDIDA	HOARY WILLOW
509	P	SP	C	8.070 011GENTIANOPSIS PROCERA	SMALL FRINGED GENTIAN
510	P	SP	C	8.070 008SPHENOPHOLIS PENSYLVANICA	SWAMP-OATS
511	P	SP	C	8.070 007SALIX SERISSIMA	AUTUMN WILLOW
512	S	SA	N	13.537 037PORZANA CAROLINA	SORA
513	S	SA	N	13.542 020RALLUS LIMICOLA	VIRGINIA RAIL
514	P	SP	C	8.543 006UTRICULARIA MINOR	LESSER BLADDERWORT
515	P	SP	C	8.543 023DROsera ROTUNDIFOLIA	ROUND-LEAVED SUNDEW
516	P	SP	C	8.543 001CALLA PALUSTRIS	WILD CALLA
517	S	SA	C	8.543 018CLEMMYS GUTTATA	SPOTTED TURTLE
518	P	SP	C	8.543 011ELEOCHARIS INTERMEDIA	MATTED SPIKERUSH
519	P	SP	C	8.543 001CHAMAEDAPHNE CALYculata	LEATHER-LEAF
521	P	SP	C	8.601 003POTENTILLA PALUSTRIS	MARSH FIVEFINGER
522	P	SP	C	8.601 023PANICUM COLUMBIANUM	AMERICAN PANIC-GRASS
523	T	SP	C	8.613 001POTAMOGETON PULCHER	SPOTTED PONDWEED
524	T	SP	C	13.297 007POA PALUDIGENA	MARSH SPEAR-GRASS
525	T	SP	C	13.297 011UTRICULARIA INTERMEDIA	FLAT-LEAVED BLADDERWORT
526	P	SP	C	13.297 008UTRICULARIA MINOR	LESSER BLADDERWORT
527	E	SP	C	13.297 001CARDAMINE PRATENSIS VAR. PALUSTRIS	AMERICAN CUCKOO-FLOWER
528	E	SP	C	13.297 001MYRIOPHYLLUM VERTICILLATUM	GREEN WATER-MILFOIL
529	T	SP	C	8.688 001CHIMAPHILA UMBELLATA	PIPSISSEWA
530	P	SP	C	13.234 023LARIX LARICINA	TAMARACK
531	P	SP	C	13.234 032PLATANTHERA CLAVELLATA	GREEN WOODLAND ORCHID
532	P	SP	C	8.703 011ERIOPHORUM VIRGINICUM	TAWNY COTTONGRASS
533	P	SP	C	8.703 038WOODWARDIA VIRGINICA	VIRGINIA CHAIN-FERN
534	T	SP	C	8.703 008CAREX OLIGOSPERMA	FEW-SEEDED SEDGE
535	P	SP	C	8.703 015CHAMAEDAPHNE CALYculata	LEATHER-LEAF
536	E	SP	C	8.703 001HYPERICUM BOREALE	NORTHERN ST. JOHN'S-WORT
537	P	SP	C	8.703 008ELEOCHARIS OLIVACEA	OLIVACEOUS SPIKERUSH
539	P	SP	C	8.703 029VACCINIUM MACROCARPON	LARGE CRANBERRY
540	T	SP	C	8.677 008MENyanthes TRIFOLIATA	BUCKBEAN
541	P	SP	C	8.677 009CALLA PALUSTRIS	WILD CALLA
542	T	SP	N	8.805 003LECHEA INTERMEDIA	ROUND-FRUITED PINWEED

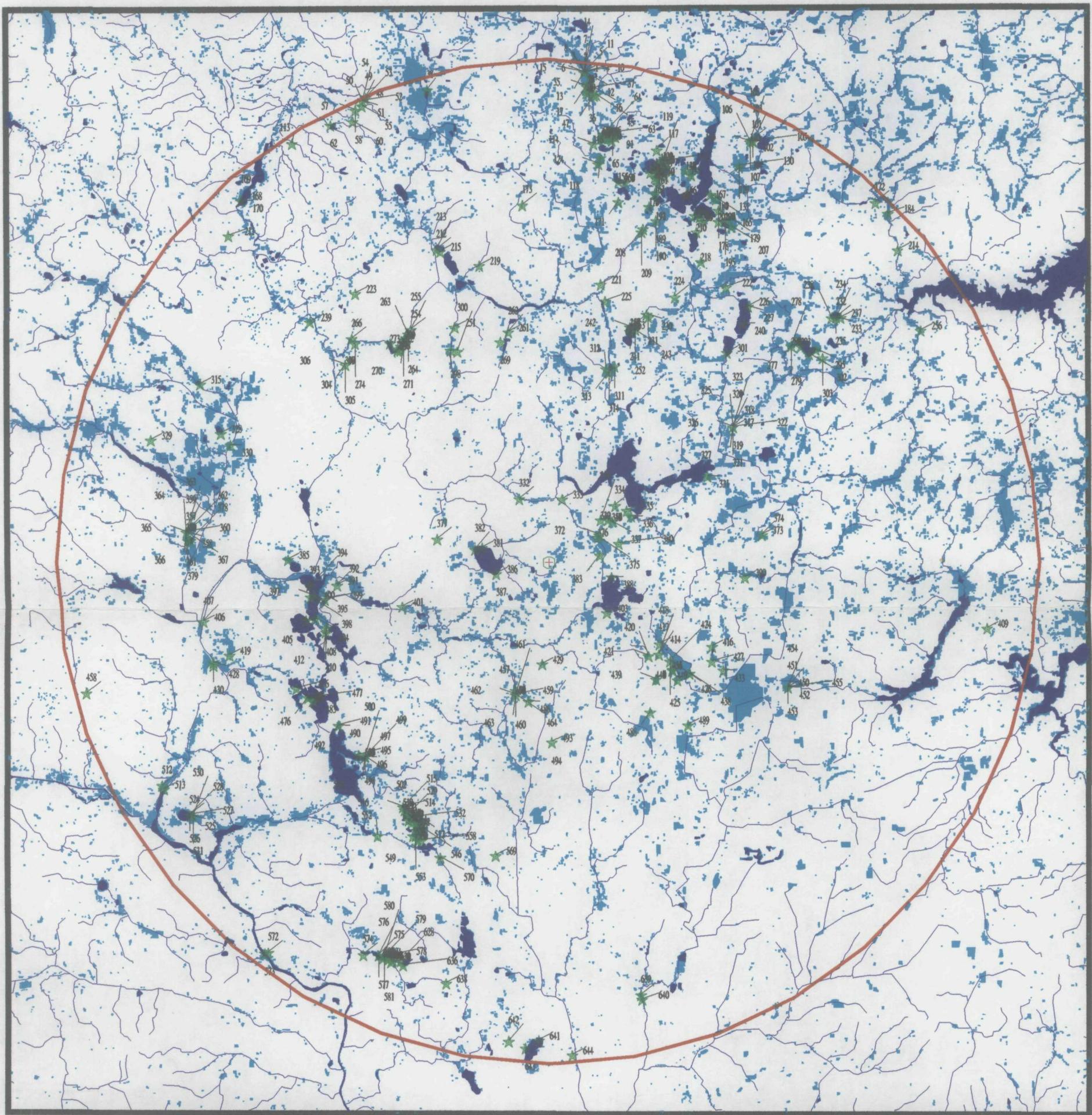
543	P	SP	N	8.805 002LARIX LARICINA	TAMARACK
544	E	SP	C	8.763 001GLYCERIA ACUTIFLORA	SHARP-GLUMED MANNA-GRASS
545	P	SP	C	8.846 039PANICUM LAXIFLORUM	PALE GREEN PANIC-GRASS
546	P	SP	C	8.807 019PANICUM COLUMBIANUM	AMERICAN PANIC-GRASS
547	P	SP	C	8.807 017LECHEA PULCHELLA	LEGGETT'S PINWEED
548	P	SP	C	8.807 038PANICUM LAXIFLORUM	PALE GREEN PANIC-GRASS
549	P	SP	N	8.949 008RHEXIA VIRGINICA	VIRGINIA MEADOW-BEAUTY
550	P	SP	N	8.949 013CALLA PALUSTRIS	WILD CALLA
552	P	SP	N	9.693 009LECHEA PULCHELLA	LEGGETT'S PINWEED
553	P	SP	C	9.122 035VACCINUM MACROCARPON	LARGE CRANBERRY
554	P	SP	C	9.122 029CHAMAEDAPHNE CALYCULATA	LEATHER-LEAF
555	P	SP	C	9.122 029NEMOPANTHUS MUCRONATUS	CATBERRY
556	P	SP	C	9.122 009POTENTILLA PALUSTRIS	MARSH FIVEFINGER
557	E	SP	C	9.163 004SALIX PEDICELLARIS	BOG WILLOW
558	P	SP	N	9.165 001RHEXIA VIRGINICA	VIRGINIA MEADOW-BEAUTY
559	P	SP	C	9.216 007SARRACENIA PURPUREA	PITCHER-PLANT
560	P	SP	C	9.216 037JUGLANS CINEREA	BUTTERNUT
561	P	SP	C	9.216 046LARIX LARICINA	TAMARACK
562	T	SP	C	9.216 002VACCINUM OXYCOCOS	SMALL CRANBERRY
563	P	SP	C	9.216 030CALLA PALUSTRIS	WILD CALLA
564	P	SP	C	9.216 012POTENTILLA PALUSTRIS	MARSH FIVEFINGER
565	P	SP	C	9.216 018DROSERA ROTUNDIFOLIA	ROUND-LEAVED SUNDEW
566	P	SP	C	9.216 034VACCINUM MACROCARPON	LARGE CRANBERRY
567	E	SP	C	9.216 002SALIX PEDICELLARIS	BOG WILLOW
568	P	SP	C	9.216 039WOODWARDIA VIRGINICA	VIRGINIA CHAIN-FERN
569	P	SP	N	8.899 011POA LANGUIDA	WEAK SPEAR-GRASS
570	P	SP	N	9.412 003LECHEA PULCHELLA	LEGGETT'S PINWEED
572	P	SP	C	14.462 013PLATANTHERA FLAVA	TUBERCLED REIN-ORC HID
573	T	SP	C	14.538 007SAGITTARIA RIGIDA	DEER'S-TONGUE ARROWHEAD
574	T	SP	N	13.013 002LECHEA VILLOSA	HAIRY PINWEED
575	P	SP	C	12.829 001SALIX SERISSIMA	AUTUMN WILLOW
576	P	SP	C	12.829 022CAREX FLAVA	YELLOW SEDGE
577	E	SP	C	12.829 004GALIUM LABRADORICUM	BOG BEDSTRAW

578	P	SP	C	12.722 010LECHEA PULCHELLA	LEGGETT'S PINWEED
579	P	SP	C	12.775 019RHYNCHOSPORA ALBA	WHITE BEAK-RUSH
580	P	SP	C	12.775 028JUNCUS BALTIUS	BALTIC RUSH
581	P	SP	N	12.775 004ZIGADENUS ELEGANS VAR. GLAUCUS	WAND-LILY
582	P	SP	C	12.775 021CAREX FLAVA	YELLOW SEDGE
583	T	SP	C	12.775 012UTRICULARIA INTERMEDIA	FLAT-LEAVED BLADDERWORT
584	T	SP	C	12.775 001SPIRANTHES ROMANZOFFIANA	HOODED LADIES'-TRESSES
585	P	SP	C	12.775 029CLADIUM MARISCOIDES	TWIG-RUSH
586	P	SP	C	12.775 001TRIGLOCHIN PALUSTRE	MARSH ARROW-GRASS
587	E	SP	C	12.775 003AGALINIS PURPUREA VAR. PARVIFLORA	SMALL PURPLE FOXGLOVE
588	P	SP	C	12.775 003SOLIDAGO OHIOENSIS	OHIO GOLDENROD
589	P	SP	C	12.775 009CAREX LASIOCarpa	SLENDER SEDGE
590	P	SP	C	12.775 026CAREX STERILIS	FEN SEDGE
591	P	SP	C	12.775 009DESCHEMP sia CAESPITOSA	TUFTED HAIRGRASS
592	P	SP	C	12.775 002SARRACENIA PURPUREA	PITCHER-PLANT
593	P	SP	C	12.775 006DROSERA ROTUNDIFOLIA	ROUND-LEAVED SUNDEW
594	S	SA	C	12.706 024CLEMMYS GUTTATA	SPOTTED TURTLE
595	T	SP	N	12.863 004TOFIELDIA GLUTINOSA	FALSE ASPHODEL
596	T	SP	N	12.863 009LECHEA INTERMEDIA	ROUND-FRUITED PINWEED
597	T	SP	N	12.863 020LECHEA VILLOSA	HAIRY PINWEED
598	P	SP	N	12.863 004EQUISETUM VARIEGATUM	VARIEGATED SCOURING-RUSH
599	P	SP	N	12.863 001GLYCERIA GRANDIS	TALL MANNA-GRASS
600	T	SP	N	12.863 009VIBURNUM OPULUS VAR. AMERICANUM	Highbush-Cranberry
601	P	SP	C	12.816 025CAREX FLAVA	YELLOW SEDGE
602	T	SP	C	12.816 005SPIRANTHES ROMANZOFFIANA	HOODED LADIES'-TRESSES
603	P	SP	C	12.816 020GENTIANOPSIS PROCERA	SMALL FRINGED GENTIAN
604	P	SP	C	12.816 038DROSERA ROTUNDIFOLIA	ROUND-LEAVED SUNDEW
605	E	SP	C	12.816 004AGALINIS PURPUREA VAR. PARVIFLORA	SMALL PURPLE FOXGLOVE
606	P	SP	C	12.783 007DANTHONIA COMPRESSA	FLATTENED WILD OAT GRASS
607	P	SP	C	12.783 012CASTANEA DENTATA	AMERICAN CHESTNUT
608	P	SP	C	12.783 015LECHEA PULCHELLA	LEGGETT'S PINWEED
609	P	SP	C	12.783 004CAREX CRAWEI	CRAWE'S SEDGE
610	P	SP	C	12.783 013SALIX SERISSIMA	AUTUMN WILLOW

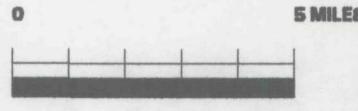
OhioEPA

Division of Emergency & Remedial Response
GEOGRAPHIC INFORMATION SYSTEM 15-MILE RADIUS MAP

NATURAL HERITAGE DATA SAM - WINER MOTORS



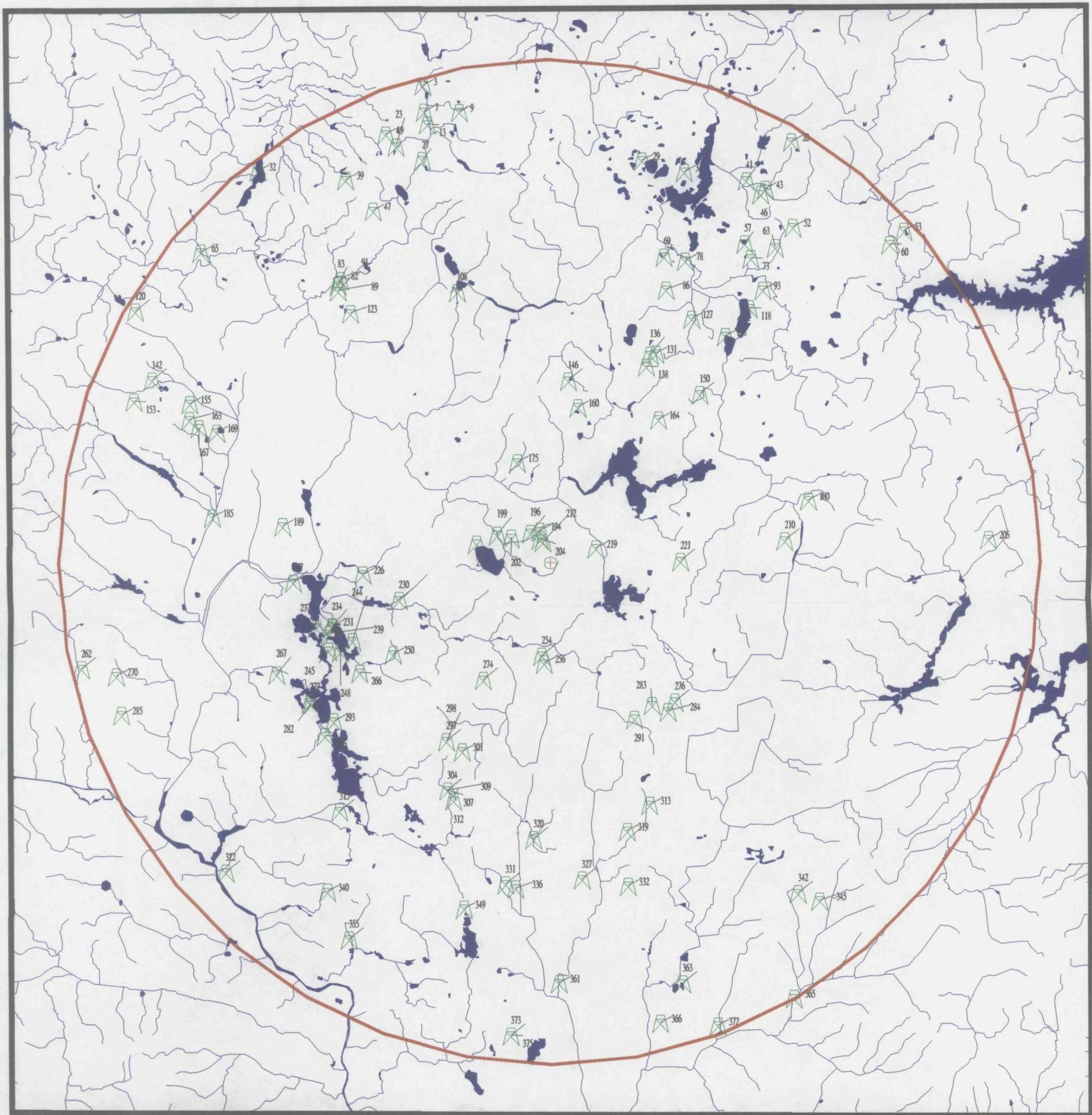
- ★ FEDERAL ENDANGERED SPECIES
 - ★ STATE ENDANGERED SPECIES
 - LIMIT OF RADIUS FROM SITE
 - STREAM
 - SITE



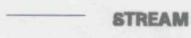


Division of Emergency & Remedial Response
GEOGRAPHIC INFORMATION SYSTEM 15-MILE RADIUS MAP

COMMUNITY PUBLIC WATER SUPPLY SYSTEMS
SAM_WINER MOTORS



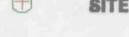
PUBLIC WATER SUPPLY



STREAM



LIMIT OF RADIUS FROM SITE



SITE

0

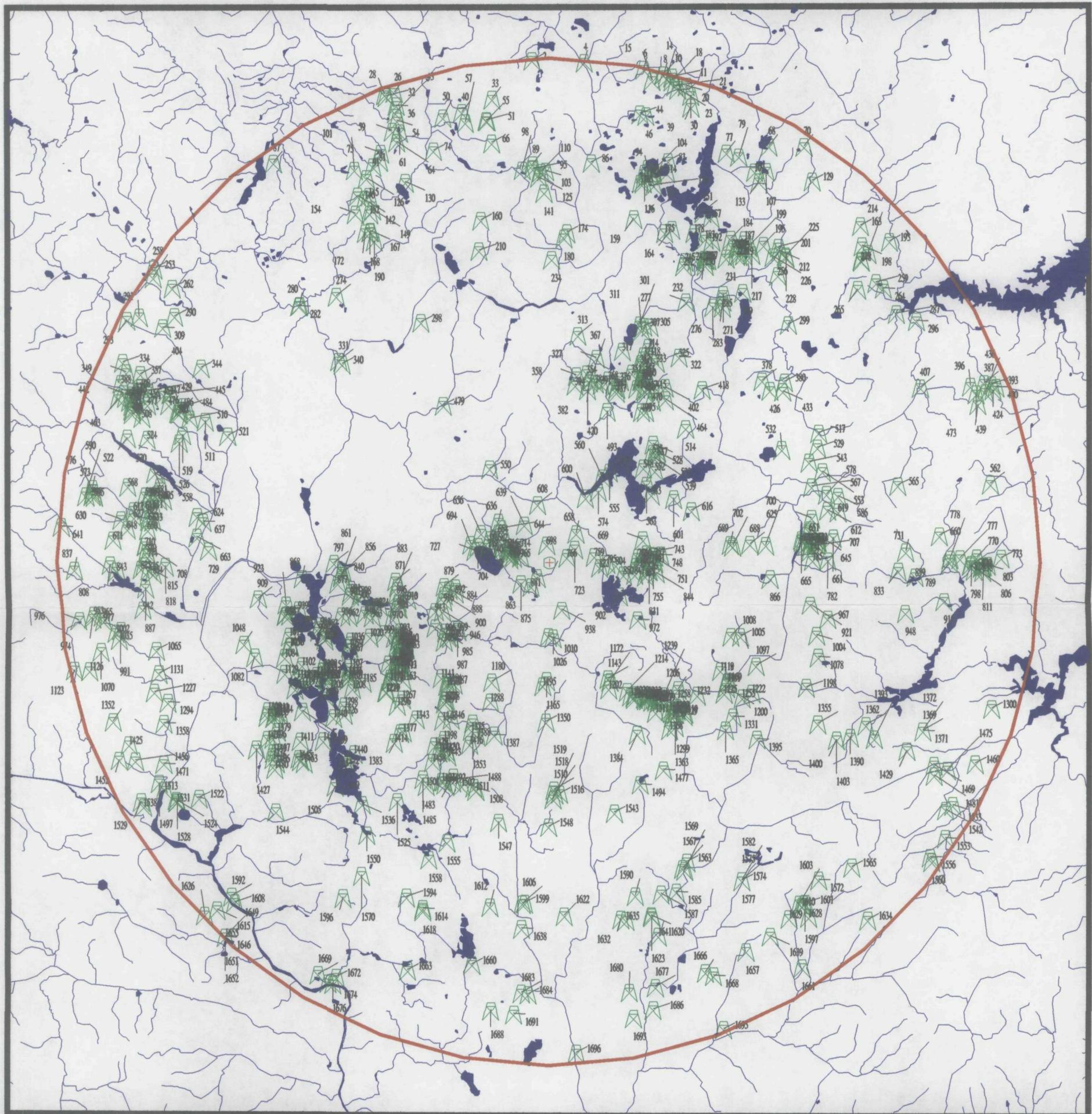
5 MILES



ChicEPA

Division of Emergency & Remedial Response
GEOGRAPHIC INFORMATION SYSTEM 15-MILE RADIUS MAP

NONCOMMUNITY PUBLIC WATER SUPPLY SYSTEMS SAM_WINER MOTORS



STREAM

LIMIT OF RADIUS FROM SITE

SITE

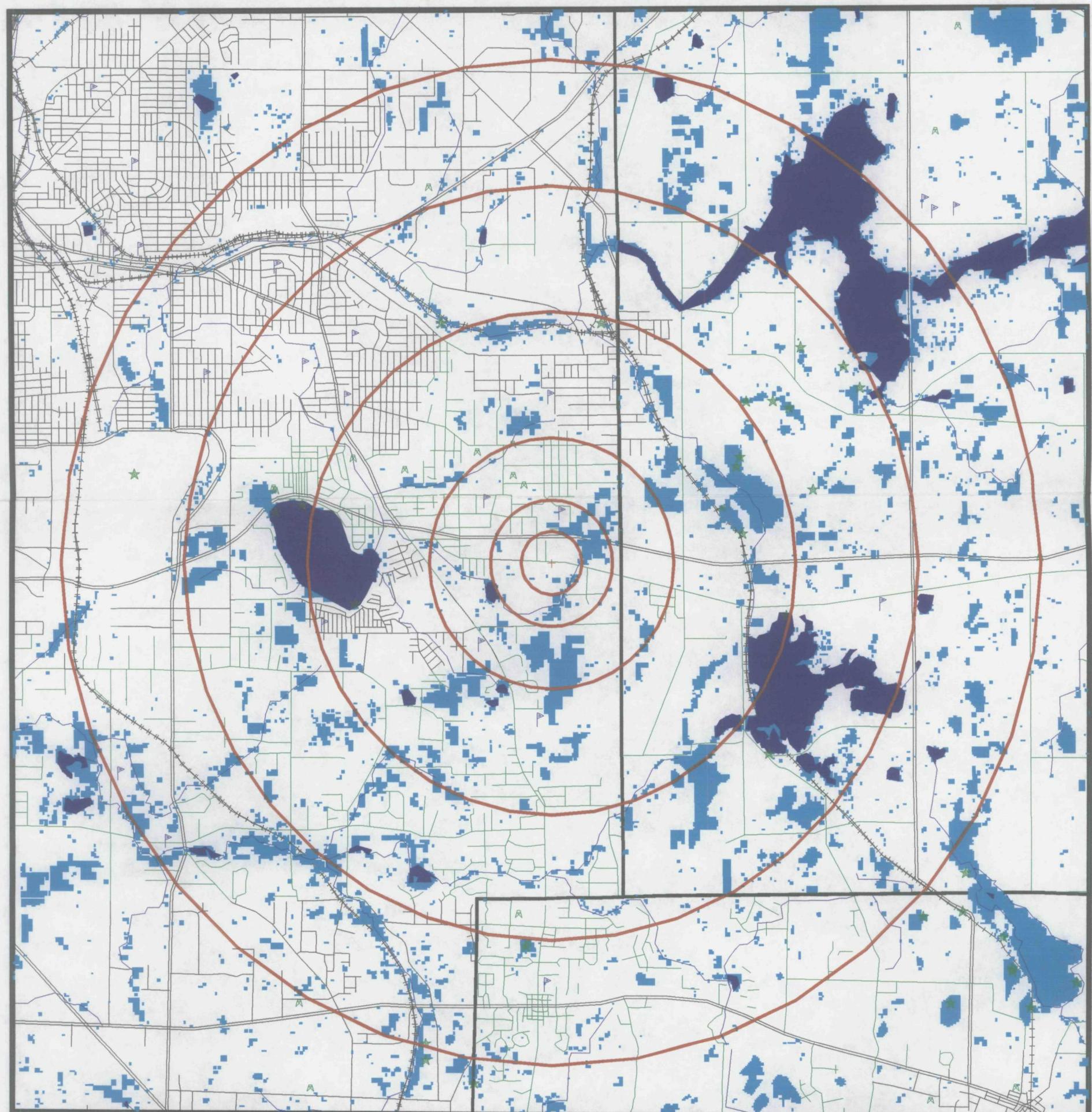
0 5 MILES



OhioEPA

Division of Emergency & Remedial Response
GEOGRAPHIC INFORMATION SYSTEM 4-MILE RADIUS MAP

Summit County
SAM_WINER MOTORS

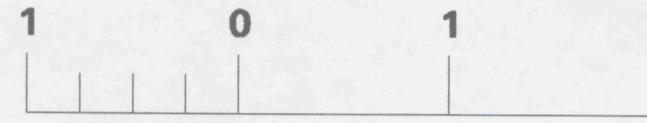


- School
- Hospital
- FEDERAL ENDANGERED SPECIES
- STATE ENDANGERED SPECIES
- PUBLIC SURFACE-WATER SYSTEM
- PUBLIC GROUND-WATER SYSTEM

- COUNTY BOUNDARY
- LIMIT OF RADIUS FROM SITE
- COUNTY ROAD
- MUNICIPAL ROAD
- STATE OR FEDERAL HIGHWAY
- RAILROAD
- STREAM
- + SITE

WETLAND AREA

WELLHEAD PROTECTION AREA



2 MILES

